NOKIA
Nseries

Nokia N900

Contents

Safety

Read these simple guidelines. Not following them may be dangerous or illegal. Read the complete user guide for further information.

SWITCH ON SAFELY

Do not switch the device on when wireless phone use is prohibited or when it may cause interference or danger.

ROAD SAFETY COMES FIRST

Obey all local laws. Always keep your hands free to operate the vehicle while driving. Your first consideration while driving should be road safety.

INTERFERENCE

All wireless devices may be susceptible to interference, which could affect performance.

SWITCH OFF IN RESTRICTED AREAS

Follow any restrictions. Switch the device off in aircraft, near medical equipment, fuel, chemicals, or blasting areas.

QUALIFIED SERVICE

Only qualified personnel may install or repair this product.

ACCESSORIES AND BATTERIES

Use only approved accessories and batteries. Do not connect incompatible products.

WATER-RESISTANCE

Your device is not water-resistant. Keep it dry.

About your device

The wireless device described in this guide is approved for use on the (E)GSM 850, 900, 1800, 1900, and UMTS 900, 1700, 2100 networks. Contact your service provider for more information about networks.

Your device may have preinstalled bookmarks and links for third-party internet sites and may allow you to access third-party sites. These are not affiliated with Nokia, and Nokia does not endorse or assume liability for them. If you access such sites, take precautions for security or content.

Warning:
To use any features in this device, other than the alarm clock, the device must be switched on. Do not switch the device on when wireless device use may cause interference or danger.

When using this device, obey all laws and respect local customs, privacy and legitimate rights of others, including copyrights. Copyright protection may prevent some images, music, and other content from being copied, modified, or transferred.

Make back-up copies or keep a written record of all important information stored in your device.

When connecting to any other device, read its user guide for detailed safety instructions. Do not connect incompatible products.

The images in this guide may differ from your device display.

Refer to the user guide for other important information about your device.

Network services

To use the device you must have service from a wireless service provider. Some features are not available on all networks; other features may require that you make specific arrangements with your service provider to use them. Network services involve transmission of data. Check with your service provider for details about fees in your home network and when roaming on other networks. Your service provider can explain what charges will apply. Some networks may have limitations that affect how you can use some features of this device requiring network support such as support for specific technologies like WAP 2.0 protocols (HTTP and SSL) that run on TCP/IP protocols and language-dependent characters.

Your service provider may have requested that certain features be disabled or not activated in your device. If so, these features will not appear on your device menu. Your device may also have customized items such as menu names, menu order, and icons.

Shared memory

The following features in this device may share memory: bookmarks; image, audio, and video files; notes, sketch, and other files; contacts; e-mail messages; and applications. Use of one or more of these features may reduce the memory available for the remaining features. If your device displays a message that the memory is full, delete some of the information stored in the shared memory.

Set up your device

Insert the SIM card and battery

Always switch the device off and disconnect the charger before removing the battery.

Important: To prevent damage to the SIM card, always remove the battery before you insert or remove the card.

1   To prevent the battery from coming loose, place the device so that the back cover is facing up.
2   Place your finger in the grip, and lift the back cover up. You do not need to press a button to release the back cover.
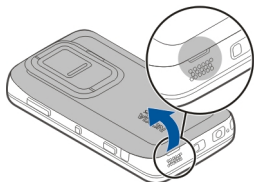
3   To release the SIM card holder, slide the holder to the left (1), and lift the right end of the holder up (2). Make sure that the bevelled corner on the card is facing up, and that the contact area on the card is facing the connectors on the device (3). Close the holder (4), and slide it to the right to lock it into place (5).
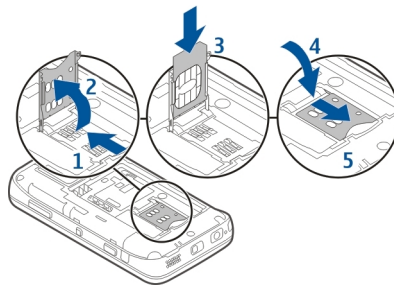
4   Align the contacts of the battery with the corresponding connectors on the battery compartment, and insert the battery in the direction of the arrow.
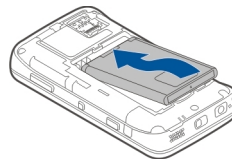
5   To replace the back cover, direct the locking catch toward its slot, and press down until the cover locks into place.
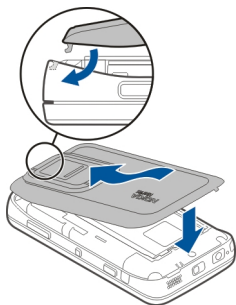
1 To prevent the battery from coming loose, place the device so that the back cover is facing up.

2 Place your finger in the grip, and lift the back cover up. You do not need to press any button to release the back cover.
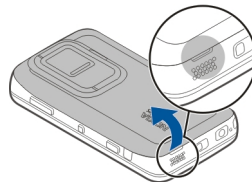
Insert the memory card

Use only compatible MicroSD cards approved by Nokia for use with this device. Nokia uses approved industry standards for memory cards, but some brands may not be fully compatible with this device. Incompatible cards may damage the card and the device and corrupt data stored on the card.

The memory card can be safely inserted or removed even when the device is switched on.

A memory card may be already inserted in the device. If not, do the following:

3 To release the memory card holder, slide the holder towards the battery (1), and lift up the end of the holder (2). Insert a compatible memory card into the holder (3). Make sure the contact area on the card is facing the connectors on the device. Close the holder (4), and slide it back to lock it into place (5).
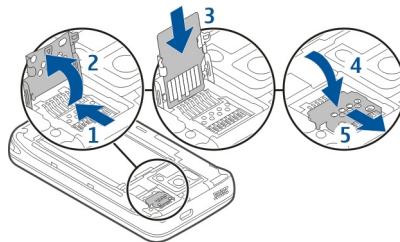
4 Replace the back cover. Keep the device facing down when replacing the cover. Make sure the cover is properly closed.

Charge the battery using the charger
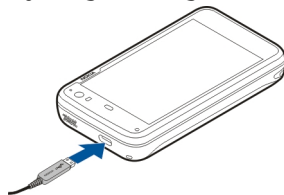
1 Connect the charger to a wall outlet.
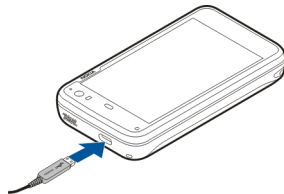
2 Connect the charger to the micro USB connector of the device.
3 When the device indicates a full charge, disconnect the charger from the device, then from the wall outlet.

The indicator light blinks when the device is charging. The indicator light stays lit when the battery is fully charged.

You do not need to charge the battery for a specific length of time, and you can use the device while it is charging. If the battery is completely discharged, it may take several minutes

Charge the battery

Your battery has been partially charged at the factory. If the device indicates a low charge, do the following:

before the indicator light starts blinking or before any calls can be made.

Charge the battery using the USB cable
You can charge your device using a compatible USB device, for example a computer, when a wall outlet is not available. You can also transfer data while charging the device.

1   Connect a compatible USB cable between a compatible USB device and your device.

    Depending on the type of device that is used for charging, it may take a while for charging to start.

2   If your device is switched on, USB mode options are displayed. Select **Mass storage mode** or **PC Suite mode** to make sure that your device receives enough power from USB charging.

The indicator light blinks when the device is charging. The indicator light stays lit when the battery is fully charged.

If the battery is completely discharged, allow some time for charging before using your device.

If your device is on and you have many applications running, the device can consume more power than it receives from USB charging. Close some of the applications and disconnect data connections, or use the charger that comes with the sales package.

Keys and parts

Keys and parts (front)
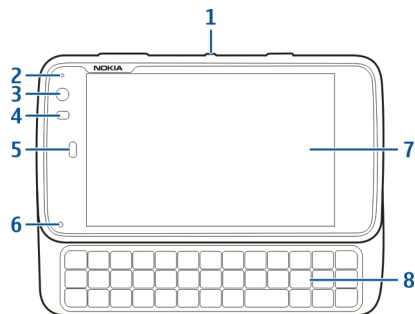
1   Power key
2   Light sensor
3   Secondary camera lens
4   Proximity sensor
5   Earpiece
6   Indicator light
7   Touch screen
8   Physical keyboard

To ensure proper functionality of the touch screen, remove the protective film from the device display.

Do not cover the area left of the touch screen with, for example, protective film or tape.
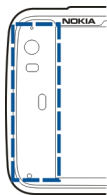
Keys and parts (back)
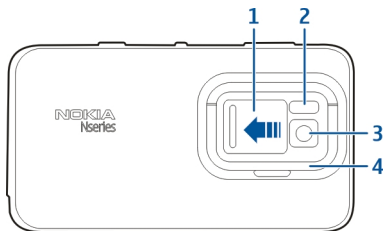
1 Lens cover
2 Camera flash
3 Camera lens
4 Kickstand

Keys and parts (top)
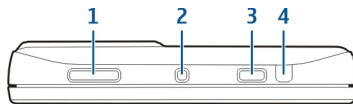
1 Zoom/Volume key
2 Power key
3 Capture key
4 Infrared port

   None of the pre-installed applications of your device use the infrared port, but it enables the development of third party applications requiring an infrared port. The infrared port is not IrDA compatible.

Keys and parts (sides)
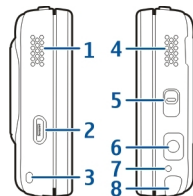
1 Stereo speaker
2 Micro USB connector
3 Wrist strap eyelet
4 Stereo speaker

5 Lock switch
6 Nokia AV Connector (3.5 mm)
7 Microphone
8 Stylus

First start-up

Switch the device on

1 Press the power key.
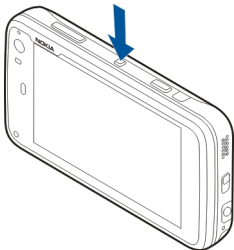
2 If the device asks for a PIN code or lock code, enter it, and select **Done**. The preset lock code is **12345**. If you forget the code and your device is locked, your device requires service for which additional charges may apply. For more information, contact a Nokia Care point or your device dealer.

Switch the device off

Press the power key, and select **Switch off!**.

Tip: You can also switch the device off by pressing and holding the power key.

Start-up wizard

1 Switch the device on. A welcome note is briefly displayed, and the start-up wizard opens.
2 The language, region, time and date settings are displayed. Define the following:

   Language — Slide your finger up or down to scroll through the list, and select the language.

   Region — Slide your finger up or down to scroll through the list and, select the region.

   Time — Define the time format by moving the slider to **24 hrs** or **12 hrs**, and move the hands of the clock to the correct time with your finger. If you are using the 12-hour clock, move the slider to **AM** or **PM**.

   Date — Set the current date. To do this, slide your finger up or down on the day, month, and year columns.
3 To accept and save the settings, select **Save**.

Kickstand

The kickstand is on the back of the device, and when placed on a flat surface, can be used when you watch, for example, video clips, or photos.

Open the kickstand

Use accessories

Headset

You can connect a compatible headset or compatible headphones to your device. Nokia headsets with music controls can also be used, but the device does not support the music controls.
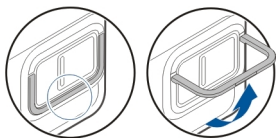
Stylus

Some functions, such as sketching, may be easier to use with a stylus than with your finger.
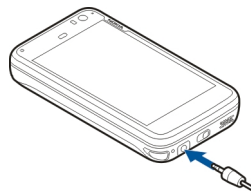
Warning:
When you use the headset, your ability to hear outside sounds may be affected. Do not use the headset where it can endanger your safety.

Do not connect products that create an output signal as this may cause damage to the device. Do not connect any voltage source to the Nokia AV Connector.

When connecting any external device or any headset, other than those approved by Nokia for use with this device, to the Nokia AV Connector, pay special attention to volume levels.

Important: Use only a stylus approved by Nokia for use with this device. Using any other stylus may invalidate any warranty applying to the device and may damage the touch screen. Avoid scratching the touch screen. Never use an actual pen or pencil or other sharp objects to write on the touch screen.

Wrist strap
1 Remove the back cover.

2 Hook a strap behind the clamp and close the back cover.
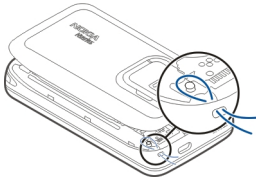
Introduction

About Maemo software

This device uses Maemo 5 software on Linux. The software is built for computer-like performance, enabling the running of multiple applications at the same time, and delivering a wide range of activities ranging from web browsing to video recording. Your device supports Maemo Update, which allows updating the operating system and applications over a WLAN or packet data connection.

With Maemo software, it is possible to develop your own applications for your device. To do this, you can use the Maemo Software Development Kit (Maemo SDK). For more information on what Maemo software is and how to develop applications, see maemo.nokia.com.

About the desktop

The desktop is displayed when you switch on the device. It offers quick access to different features of your device. You can have up to four desktops. The desktops can be

personalised to have different widgets, bookmarks, background images, and shortcuts to applications and contacts.

The desktop contains the following:
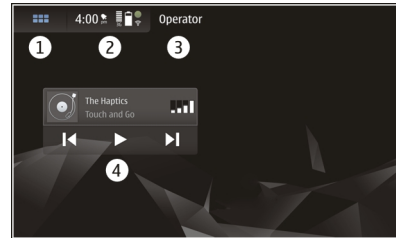
1 Application menu
2 Status area
3 Your network service provider (if a SIM card is inserted)
4 Widgets

Switch between desktops
Swipe left or right.
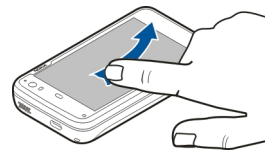
Search for contacts

Start entering a name, using the physical keyboard.

Open the virtual keypad to make a call

Start entering a phone number on the desktop, using the physical keyboard. To enter numbers, press and hold ⬈ and press the desired numbers.

Application menu

The application menu displays the available applications. Select ▦.
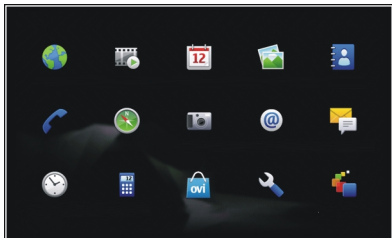
Open an application

Select the application you want to open.

Close an application

Select ✕. All unsaved changes and selections are cancelled.

Status area and status menu
Status area

The status area informs of the current status of items that are relevant across the device. The current time, and battery and signal strength are displayed. In addition, the status area may indicate your internet connection status, available updates, or your active profile.

Status area indicators
General indicators

⬚	A clock alarm is active.
▯	The state of device battery, and possible charging status.
≣	The current signal strength.
⬚	Software updates or additional applications are available.
⬚	The Silent profile is active.

Connectivity indicators

2 G, 2.5G, 3 G, or **3.5G**	The current network.
⬚	Synchronisation is in progress.

🔀	A USB connection is active.
🔁	A packet data connection is active (network service).
📶	A wireless LAN connection is active.
📶	An ad-hoc wireless LAN connection is active.
🌀	Bluetooth connectivity is active.
✳	A Bluetooth connection with one or more Bluetooth devices is active.
📵	SIM card not available (card not inserted or PIN code not entered).
🔻	The Offline mode is active.

GPS indicators

🔳	The GPS function is active.
🔳	The GPS function is inactive.

Content sharing indicators

🔗	Sharing is ongoing.
🔗	Sharing is pending and needs your attention.
🔗	Sharing is blocked.

Call indicator

📞	A phone call is active.

Availability status indicators

🟢	Online
🔴	Busy

If the availability status is offline, no indicator is shown in the status area.
Sound indicators

🎧	Your device is connected to wired or Bluetooth headphones.
🎧	Your device is connected to a wired or Bluetooth headset device.
📻	The FM transmitter is activated.

If a third-party application adds an icon to the status area, it is placed after the default icons.

Open the status menu

Tap the status area.

The status menu displays, for example, the remaining battery life, device volume, and Bluetooth connection status. To change the displayed status, select the respective status menu item.
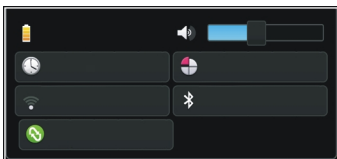
Dashboard

The applications that are currently running can be seen on the dashboard. The dashboard also displays the notifications that you have received but have not opened yet, for example, text and mail messages, as well as missed calls.
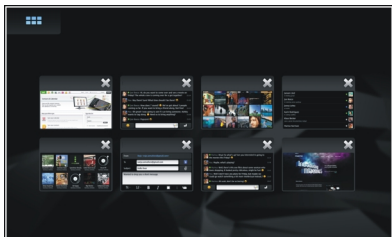
Open the dashboard

When you open an application, the ⊞ icon changes to the dashboard icon ▭. Select ▭ to open the dashboard. The application remains open, and you can return to the application by selecting it.

Switch between applications

When several applications are open, select ▭ and the application you want to switch to.

Respond to a notification

1 When you receive, for example, a new mail, instant message, or text message, a notification is briefly displayed. You can view the message by selecting the notification. If you do not select the notification while it is displayed, the notification remains on the dashboard. To indicate this, the ▭ icon blinks and then stays lit.
2 To view the notification on the dashboard, select the notification.

About the touch screen
Touch screen actions

Tap

To select or open an application or other element on the touch screen, tap it once with your finger.

Select

In this user documentation, opening applications or items by tapping them once is called "selecting". If you need to select several items in a sequence, the display texts to select are separated by arrows.

Drag

Dragging can be used, for example, to scroll up or down a list. To drag, place your finger on the screen, and slide it across the screen.
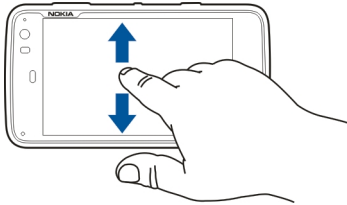
Swipe

Swiping can be used, for example, to switch between images in the Photos application. To swipe, slide your finger quickly left or right on the screen.
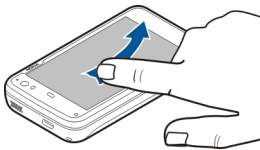
Touch screen backlight

Turn touch screen backlight on

The touch screen backlight is turned off after a period of inactivity. To turn the backlight on, tap the screen. If the screen and keys are locked, use the lock switch to unlock them.

Touch screen actions in applications

Open the application menu

Tap the title bar of the currently open application.
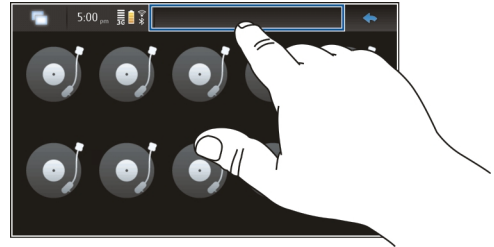
Close a dialog

Tap on a blank space on the desktop. All changes and selections will be cancelled.

Basic use

About your device
Antenna locations

Your device may have internal and external antennas. Avoid touching the antenna area unnecessarily while the antenna is transmitting or receiving. Contact with antennas affects the communication quality and may cause a higher power level during operation and may reduce the battery life.
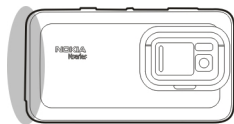
Cellular antenna
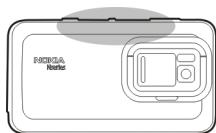
Bluetooth and WLAN antenna

GPS antenna

Control volume

Adjust the volume
Use the volume keys.

Tip: You can view the current volume setting, and also adjust the volume, from the status menu. Tap the status area to open the menu. Use the volume slider 🔊 ▬▬▬▬ to adjust the volume.

Mute sounds
Drag the volume slider in the status menu all the way to the left.

Adjust call and message tone volumes
Select ▦ > **Settings** and **Profiles**.

Notification light

The notification light can indicate the status of your device. For example, it can inform you about the battery charging status, and tell you if you have missed a phone call or received, for example, a mail or text message. You can enable or disable the notification light for each notification type by changing the notification light settings.

The colours of the notification light indicate the following:

- ● Application triggered notification light (received text message, instant message, or mail)
- ● Battery charging
- ● Battery full

Related topics

Protect your device
Lock your device

To prevent unauthorised use of your device, change the lock code, and set the device to automatically lock after a certain length of time.

Briefly press the power key, and select **Secure device**.

Unlock your device

Enter the lock code, and select **Done**.

Set the length of the timeout period

Select **░░** > **Settings** and **Device lock** > **Autolock**, and select the length of time.

Change the lock code
1 Select **░░** > **Settings** and **Device lock** > **Change lock code**.
2 Enter the current code once, and the new code twice. The default lock code is 12345.

If you tap outside the dialog at any time, the device lock code is not changed.

Keep the new lock code secret and in a safe place, separate from your device.

If you forget the device lock code, you must take the device to a Nokia Care point. To unlock the device, the software must

be reloaded, and all data you have saved in the device, may be lost.

Lock touch screen and keys

Locking the touch screen and keys prevents accidental keypresses.

To lock or unlock the touch screen and keys, slide the lock switch.

Text input
Use the physical keyboard

To use the physical keyboard, slide the touch screen up. When you use the physical keyboard, the virtual keyboard is disabled.

6 Backspace key

Enter text
Press the keys on the keyboard.

Switch between character cases
Press the shift key. To enter only uppercase or lowercase letters, press the shift key twice. To return to normal mode, press the shift key again.

Enter numbers, additional characters and common symbols
Press the ⊅ key and press the corresponding key to type a number, character or symbol. To enter only the characters printed at the top of keys, press the ⊅ key twice to lock the mode. To return to normal mode, press the ⊅ key again.

Enter special characters
Press ⊅ and the sym key.

Enter accented characters
If you need to add an accent to a letter, press ⊅ and the sym key, and select the accent from the list. Then press the letter to which you want the accent to be added.

Use word completion
You can also use the word completion feature. The word candidates are displayed in the text input area. To select a word candidate, press the right arrow key.

In addition to the character keys, the physical keyboard contains the following keys:
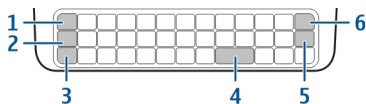
1 Sym key
2 ⊅ key
3 Shift key
4 Space key
5 Enter key

Use keyboard shortcuts
Press the ctrl key and the character.

Related topics

Use the virtual keyboard
To use the virtual keyboard, make sure the physical keyboard is closed, and select a text entry field, the web address field of the browser, for example. The virtual keyboard needs to be activated before you can use it.

Activate the virtual keyboard
Select ▦ > **Settings** and **Text input**.
Select the **Use virtual keyboard** check box.

The virtual keyboard keys are as follows:
❤ABC — Switch between uppercase and lower case characters.

1!+ — Enter numbers, additional characters, and common symbols.

*§¿ — Enter commonly used special characters, symbols, and language character accents.

▤ — Open the text input menu, which includes editing options such as **Cut**, **Copy**, and **Paste** . You can also switch between the input languages, if you have defined them in the text input settings.

◄ — Insert a line break.

◁ — Delete the character to the left of the cursor.

▽ — Close the virtual keyboard.

Switch between input methods
To switch between the virtual keyboard and the physical keyboard, slide the touch screen up or down.

Switch keyboard layout
The physical keyboard layout can vary by region, but the keyboard can still provide two different text input languages at the same time.

Switch between input languages

Press the ctrl and space keys simultaneously. This also switches the languages for the virtual keyboard.

Text input settings
1 Select ▦ > **Settings** and **Text input**.
2 Select from the following:

Hardware keyboard layout — Define the character set used in the physical keyboard. Changing this setting may lead to the physical keys not matching the hardware keyboard layout.

Use virtual keyboard — Activate the virtual keyboard.

Word completion — Enable word completion.

Auto-capitalisation — Enable auto-capitalisation, to capitalise the first letter of sentences automatically when entering text.

Insert space after word — Insert a space after each accepted word completion.

1st language — Select the first language. To select a dictionary to use for the first language, select **Dictionary** and the dictionary language.

2nd language — Select the second language. To select a dictionary to use for the second language, select **Dictionary** and the dictionary language. When you switch to the secondary language, the current dictionary for the word completion feature is also changed.

Use dual dictionaries — Use both language dictionaries at the same time.

Word completion and dictionaries

If word completion is activated, the device suggests suitable endings for the words that you start writing. Word completion is based on a built-in dictionary. When you enter characters, the device searches its dictionary for words starting with these characters.

You can select to use dual dictionaries to allow the device to search from the dictionary of the second language if it cannot find a suitable word in the first language dictionary.

The dictionary can learn new words automatically from the text you have entered. Text entered in password fields is not saved in the dictionary.

Activate word completion and use dual dictionaries
Select ▦ > **Settings** and **Text input**.

Accept a suggested word
Select the suggested word. When using the physical keyboard, press the right arrow key.

Reject a suggested word
Continue writing the word. With each character, the device updates its suggestion to suit the characters you have entered.

Related topics

Use shortcuts

Here are some of the available keyboard shortcuts in your device. Shortcuts can make the use of applications more efficient.

General shortcuts

Ctrl + C	Copy text.
Ctrl + V	Paste text.
Ctrl + X	Cut text.
Ctrl + A	Select all.
Ctrl + O	Open (if available).
Ctrl + N	Create a new item (if available).

Ctrl + S	Save (if available).
Ctrl + Z	Undo (if available).
Ctrl + Y	Redo (if available).
Ctrl + F	Open search bar (if available).
Ctrl + Right arrow	Move the insertion point to the end of the word.
Ctrl + Left arrow	Move the insertion point to the beginning of the word.

Web browser shortcuts

Ctrl + N	Open a new window.
Ctrl + R	Reload the page.
Ctrl + B	Open a bookmark.
Ctrl + D	Add a bookmark.

Mail shortcuts

Ctrl + Enter	Send a message.
Ctrl + R	Reply to a message.

RSS Reader shortcuts

Ctrl + R	Refresh the feed.

Personalise your device

Edit and personalise the desktop

Open the desktop menu
Tap the desktop, and select 🔧 > **Desktop menu**.

Personalise the desktop
Select from the following:
Add shortcut — Add an application shortcut to the desktop.
Add widget — Add a widget, such as Agenda or Location, to the desktop.
Add contact — Add a contact to the desktop.
Manage views — Set which desktops are in use. To switch between desktops, swipe the current desktop left or right.
Add bookmark — Add a web bookmark to the desktop.
Change background — Change the background image. There are pre-installed background images in the device, but you can use any image stored in the device, on an inserted memory card, or in a paired or shared device.

Rearrange items on the desktop
Drag widgets, bookmarks, contacts, or shortcuts.

Move an item from one desktop to another
Drag the item to the left or right until you reach the desired desktop.

Remove items from the desktop

Select ⊗ on the widget, bookmark, contact, or shortcut.

Related topics

Profile settings

Select ▦ > **Settings** and **Profiles**.

Set the device to vibrate when in the Silent or General profile

Select **Vibrate**.

Select the ringing tone and message alert tones

Select **Ringing tone**, **SMS alert**, **IM tone**, or **E-mail alert** and the desired tone.

Add a new ringing tone or message alert tone

Select the tone type, **Add**, the desired tone, and **Done**.

Select the volume level of tones

Select **System sounds**, **Key sounds**, or **Touch screen sounds** and the desired volume level.

Adjust the volume of tones

Drag right or left.

Change the background image

You can select a different background image for each desktop of your device.

1 Swipe left or right to select the desired desktop.
2 Tap the desktop, and select ⚙ > **Desktop menu** > **Change background**.
3 Select **Add**.
4 Browse to the image, and select **Done**.

   The background image of the current desktop is changed. To change the background image of another desktop, go to the desired desktop.

Change the device language

1 Select ▦ > **Settings** and **Language & region**.
2 Select **Device language** and the desired language.

3   Restart the device.

Change themes

A theme is a set of matching background images, one for each desktop.

1   Select ▦ > **Settings** and **Themes**.
2   Select a theme from the list.

Connect your device

About connectivity

Your device offers several options to connect to the internet or to another compatible device, PC, or Mac. The available connection methods are wireless LAN (WLAN) connection and a packet data connection.

You can enable automatic transfers between WLAN and packet data connections, to keep your device constantly online. You can also set your device to ask which connection to use. When you connect to the internet for the first time using a packet data connection, the device prompts you to select whether you want to allow automatic transfer without further confirmation.

You can also connect to a PC or other compatible device using Bluetooth wireless technology, or by using a USB data cable.

Related topics

Network settings

Your device can automatically switch between GSM and 3G networks.

In the status area, the current network is indicated with the following icons:

2 G	GSM
2.5G	EDGE
3 G	3G
3.5G	HSPA

To modify network settings, select ▦ > **Settings** and **Phone** > **Network**.

Select the service provider's network

By default, your device selects the network automatically. To select the network manually, select **Manual** and a network.

Select network mode

Select which network to use. If you select **Dual**, the device uses the GSM or 3G network automatically, according to the network availability, parameters, and the roaming agreements between network service providers.

For further information, contact your network service provider.

Define data roaming settings

Roaming is based on specific roaming agreements between your network service provider and other network service providers, to enable you to use network services outside your home network, for example when travelling abroad.

Always ask is selected by default. A connection is only attempted when a confirmation note is accepted. If you select **Always allow**, all packet data connections abroad are handled as in the home network.

For further information and roaming costs, contact your network service provider.

Use a WLAN connection

You can use a wireless LAN (WLAN) data connection to connect to the internet. Only one connection to one wireless LAN can be active at a time, but several applications can use the same internet access point.

About WLAN

To use a wireless LAN (WLAN) connection, it must be available in the location, and your device must be connected to the WLAN. Some WLANs are protected, and you need an access key from the service provider to connect to them.

Note: In France, you are only allowed to use WLAN indoors.

Features that use WLAN, or that are allowed to run in the background while using other features, increase the demand on battery power and reduce the battery life.

Your device supports the following WLAN features:

- IEEE 802.11b/g standard
- Operation at 2.4 GHz
- Wired equivalent privacy (WEP) with keys up to 128 bits, and Wi-Fi protected access (WPA2-Enterprise) authentication method. These functions can be used only if they are supported by the network.

Important: Always enable one of the available encryption methods to increase the security of your wireless LAN connection. Using encryption reduces the risk of unauthorised access to your data.

Related topics

Operating modes

There are two operating modes in WLAN: infrastructure and ad hoc.

The infrastructure operating mode allows two kinds of communication: wireless devices are connected to each other through a WLAN access point device, or wireless devices are connected to a wired LAN through a WLAN access point device.

In the ad hoc operating mode, devices can send and receive data directly with each other.

Create a WLAN connection

1 Select ⊞ > **Settings** and **Internet connections** > **Connections** > **New** > **Next**.
2 Enter a descriptive name for the connection, and select **Next**.
3 The device asks if you want to scan for available WLANs. Select **Yes** to start the scan, and select the WLAN from the Select connection dialog. If a WLAN is hidden, it is indicated as hidden in the dialog. You can select a hidden WLAN as any other WLAN connection, if you know the network name (SSID), and enter it manually.

To enter the values manually, select **No**, and define the following:

Network name (SSID) — Enter the name of the WLAN. If you create an ad hoc network, ensure that the name of the network is unique. When you connect to the internet over a WLAN, the connection is based on this information. If the field is dimmed and cannot be edited, the scanned SSID contains characters entered in an unknown character set, and not in standard character sets (UTF-8) as the device expects.

Network is hidden — Select whether the name of the WLAN is hidden, that is, the network is configured not to broadcast its name (SSID). If you select this option, your device actively searches for the hidden WLANs when you establish an internet connection.

Network mode — Select **Ad hoc** or **Infrastructure**. The infrastructure mode is used with internet connections.

Security method — Select the same security method that is used by your WLAN access point.

If you operate your own WLAN access point, always enable one of the available encryption methods to increase the security of your wireless network. Using encryption reduces the risk of unauthorised access to your data.

Available WLANs

After the WLAN scan, all available WLANs are displayed with the following information:

- Connection type, indicated with 🛜 (general) or 🛜 (ad hoc)
- Name
- If the WLAN is already saved in your device, ✔ is displayed
- WLAN signal strength, indicated with 📶
- Encryption method used, indicated with 🔒 (WPA), 🔒 (WEP), or 🔓 (none)

Security settings

Select ⊞ > **Settings** and **Internet connections** > **Connections**.

In the connection setup dialogs, enter the encryption keys depending on the WLAN connection in question. For stronger security, it is recommended that you use the WPA method, if possible.

WEP key

Enter the wireless equivalent privacy (WEP) key. You can define more than one WEP key, and you can also select the default key, if that is required by your WLAN.

WPA key

Enter the Wi-Fi protected access (WPA) preshared key. The key length must be between 8 and 63 characters. Only ASCII characters are allowed.

WPA with EAP type

Select the extensible authentication protocol (EAP) type from the following:

TLS (transport layer security) authentication — Select the client certificate used for authentication.
PEAP (protected extensible authentication protocol) authentication or **TTLS** (tunnelled transport layer security) — Select an authentication method used inside PEAP or TTLS and an optional client certificate.

For MSCHAPv2, define a user name and a password. Select the **Prompt password at every login** check box, if you want your password to be always requested when a connection is created. For GTC, enter your user name. You are prompted for a response upon connection creation. The client certificates are optional. For more information, contact your internet service provider.

Define advanced settings

Select ▦ > **Settings** and **Internet connections** > **Connections**. Select the connection and **Edit**. In the last dialog, select **Advanced**.

Modify WLAN proxy settings
Enable proxies
1   Select **Use proxy**.
2   Enter the IP address of the proxy server, or the host name. The format of a domain name can be proxy.company.com.
3   Enter the number of the proxy port.

Bypass proxies

If you have domains for which the use of proxies should be bypassed, select **Do not use proxy for**, and enter the domain names for which the proxy is not needed.

Enable automatic proxies

To obtain the IP addresses automatically from the internet service provider, select the **Automatic configuration** check box, and enter the web address of the server in the **Web address** field.

IP address settings

Select the **IP Addresses** tab.

IP address
1   To obtain the IP address for the device automatically from the server, select **Auto-retrieve IP address**.

2 If you want to enter the values manually, contact your internet service provider for the correct values and for further information.

DNS address
Domain name service (DNS) is an internet service that translates domain names such as www.nokia.com into IP addresses, such as 192.100.124.195.

1 To obtain the DNS address automatically from the server, select **Auto-retrieve DNS**.
2 If you want to enter the values manually, enter the IP addresses of the primary and secondary domain name servers, if required by your internet service provider.

Other WLAN settings
Select the **Other** tab and define the following:

WLAN transmission power — Select how much power the device outputs during a WLAN connection. The default value is 100 mW.

Power saving — Select the power saving level of WLAN connections.

Ad hoc channel — Select a channel for ad hoc WLAN connections.

To only support authentication according to the WPA2 protocol in WLAN connections, select **WPA2-only mode**.

The available options vary according to the selected connection type.

Modify EAP settings
The EAP settings are only visible for WLAN connections that use the EAP authentication protocol.

Enter user name manually
If the user name differs from the user name provided by the certificate, select the **Use manual user name** check box, and enter the user name in the **Manual user name** field.

Require client authentication
If you want the EAP server to require your device to be authenticated, select the **Require client authentication** check box.

Use packet data connection
About packet data
Your device supports packet data connections (network service), such as GPRS in the GSM network. In 3G networks, data connections remain active during voice calls.

To establish a data connection, an access point is required. To check what access point types are required for particular services, and for availability and subscription to packet data connection services, contact your network service provider.

Related topics

Fast downloading and uploading
High-speed packet access (HSPA, also called 3.5G) is a network service in UMTS networks that provides high-speed data

downloads and uploads. When HSPA support in the device is activated and the device is connected to a UMTS network that supports HSPA, downloading and uploading data such as mail and web pages using a packet data connection may be faster.

3.5G in the status area indicates an active HSPA connection.

For availability and subscription to data connection services and the related costs, contact your network service provider.

Packet data settings

Packet data settings are usually set automatically by the device, based on your SIM card. If you need to modify the settings, contact your service provider for details, and do the following:

1 Select ▐▐▐ > **Settings**.
2 Select **Internet connections** > **Connections**.
3 Select the internet connection provided by your network service provider, and select **Edit**. Enter the new details.

   To enter the password every time you make a connection, select the **Prompt password at every login** check box.

Advanced settings

Advanced packed data settings are modified in the same way as WLAN settings.

Related topics

• See "Modify WLAN proxy settings", p. 30.

Active data connections

In the status area, the active data connections are indicated with the following icons:

⊜   A packet data connection is active.

📶 or 📶   A wireless LAN (WLAN) connection is active.

Note: The actual invoice for calls and services from your service provider may vary, depending on network features, rounding off for billing, taxes, and so forth.

Close connections

Select the status area and a connection, and close the connection.

Disable wireless connections

Disable connections

Briefly press the power key, and select **Offline mode**.

Enable connections

Briefly press the power key, and select **Normal mode**.

Important: In the Offline mode you cannot make or receive any calls, or use other features that wireless network or Bluetooth connection. Calls may still be possible to the official emergency number programmed into your device. To use the features, you must first set the device back to normal mode. If the device has been locked, enter the lock code.

Internet connection settings

You can select which connections are used automatically, define how often connections are scanned for in the background, and set the device to switch to a saved WLAN connection when available.

1 Select ▦ > **Settings** and **Internet connections** > **Connect automatically**.
2 Select whether you want to use WLAN connections, a packet data connection, or whichever connection is available.

   To select a connection each time you connect to the network, select **Always ask**.
3 Select **Search interval** to define the frequency of automatic connection attempts. The default value is 10 minutes.

Switch to WLAN when available

Select **Switch to WLAN when available**, if you want your device to use a saved WLAN connection instead of a packet data connection when such WLAN is available.

Bluetooth connectivity
About Bluetooth connectivity

With Bluetooth connectivity, you can make a wireless connection to other compatible devices, such as mobile phones, computers, headsets, and car kits.

You can use the connection to send images, video clips, music and sound clips, and notes, and transfer files from your compatible PC.

Since devices with Bluetooth wireless technology communicate using radio waves, they do not need to be in direct line-of-sight. However, they must be within 10 metres (33 feet) of each other, although the connection may be subject to interference from obstructions such as walls or from other electronic devices.

This device is compliant with Bluetooth Specification 2.1 + EDR supporting the following profiles: General Access Profile, File Transfer Profile, Object Push Profile, Generic Object Exchange Profile, Headset Profile, Hands Free Profile, Advanced Audio Distribution Profile, and Audio/Video Remote Control Profile. To ensure interoperability between other devices supporting Bluetooth technology, use Nokia approved accessories for this model. Check with the manufacturers of other devices to determine their compatibility with this device.

Features using Bluetooth technology increase the demand on battery power and reduce the battery life.

Related topics

Bluetooth settings

1 Select ▦ > **Settings** and **Bluetooth**.
2 Select from the following:

   Bluetooth on — Activate Bluetooth connectivity.

Visible — Allow your device to be found by other devices. If your device is hidden (not visible), it can only be connected to by a previously paired device.

My device's name — Enter a name for your device. This name will be visible to other Bluetooth devices.

3 Select **Save**.

Pair devices

Devices with Bluetooth 2.1 and Secure Simple Pairing (SSP) ability are paired automatically. Ensure that both devices display the same passcode.

Pair with Bluetooth 2.0 or older devices
1 Your device proposes a passcode automatically. You can also create your own passcode (1 to 16 digits), and agree with the owner of the other device to use the same code. The passcode is used only once.
2 Select **▆▆▆** > **Settings** and **Bluetooth**.
3 Select **Devices** > **New**.

Your device lists the Bluetooth devices that are within range and not hidden. The devices are indicated with the following icons:

　▤　computer
　▯　mobile device
　◁ゝ　audio or video device
　❽　other device

4 Select the device, and enter the passcode. The same passcode must be entered in the other device.

5 Select **Set as trusted device** to authorise the device to connect to your device without your knowledge. Use this status only for your own devices, such as your compatible headset or PC, or devices that belong to someone you trust.
6 Select **Pair**.

Cancel the pairing
Tap outside the dialog.

Do not pair with or accept connection requests from unknown devices. This helps to protect your device from harmful content.

Devices with no display, such as headsets, are connected automatically after pairing.

Send data using Bluetooth connectivity

Several Bluetooth connections can be active at the same time. For example, if you are connected to a compatible headset, you can also transfer files to another compatible device.

1 Open the application where the item you want to send is stored, and select the item.
2 Select **Share** or ⋘ depending on the view you are in.
3 Select **Send via Bluetooth**.
4 Select the device to which you want to connect.
5 If the other device requires pairing before data can be transmitted, a tone sounds, and you are asked to enter a

passcode. The same passcode must be entered in both devices.

Receive data using Bluetooth connectivity

When you receive data using Bluetooth connectivity, a tone sounds and you are asked if you want to accept the data.

Accept the data
1 Select **Save**.
2 Define a file name and location for the data, and select **Save**.

USB connections
USB
1 Connect your device to a compatible device with a USB data cable.
2 Select the USB mode. You can set the device to interact with Nokia PC Suite on your compatible PC or to appear as a mass storage drive in PC, Mac, or other device
3 To view or change the USB mode, or to disconnect the device, open the status area menu.

In the status area, 🔧 indicates an active connection.

Use your device as a modem

You can use your device as a modem, to connect your computer to the internet.

1 Connect your device to your computer, using the USB data cable.
2 Select **PC Suite mode**.

3 From PC Suite, select **Connect to the Internet**.

The connection may not be displayed on your device. When connected, you can use your computer to monitor the amount of data sent and received.

You can only establish an internet connection using a cellular network, and may not be able to use some of the other communication features when the device is used as a modem.

Browse the web

About browser

With the Maemo browser, you can view hypertext markup language (HTML) web pages on the internet. You can also view web pages that are designed specifically for mobile devices. These pages use extensible hypertext markup language (XHTML).

Select 🔳🔳 > **Web**.

To browse the web, you must have an internet access point configured in your device.

Important: Use only services that you trust and that offer adequate security and protection against harmful software.

Related topics

- See "Download files", p. 38.
- See "Install add-ons", p. 39.

Open and browse web pages

Select > **Web**, and enter the address in the address bar, or select a bookmark.

To move around a web page, drag in the desired direction, or press the space key to move down and shift + space to move up.

Activate hover mode

To move the cursor on the web page, as if using a normal mouse, activate hover mode. This mode can be used, for example, on a map, to hover the cursor over a location, to display information. To activate this mode, drag from the left of the touch screen onto the screen. is displayed. To select an item when hover mode is activated, press the space or shift key.

Activate manipulation mode

To select text and images, as if using a normal mouse, activate manipulation mode. When hover mode is activated, select . is displayed. To deactivate manipulation mode, select .

By default, web pages open in full screen mode. To exit full screen mode, select .

Tip: Use the stylus to open links more easily.

Zoom specific parts of a web page

Double-tap the desired part. To go back, double-tap again.

Zoom a whole web page

Draw a circle clockwise to zoom in or anticlockwise to zoom out.
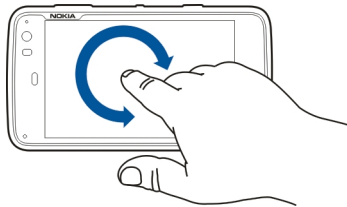
Reload a page

Open the menu, and select **Reload**.

Stop loading a page

Select .

Browse recently visited pages

To access the recent browsing history, select , or drag your finger from the right of the touch screen onto the screen. You can also use the backspace key to open the previous web page.

Search for text on a web page

1 Open the menu, and select **Find on page**.

2 Enter the desired text in the search field.

To hide the search bar, select ✂ from the toolbar.

Related topics

- See "Organise bookmarks", p. 37.

Browser toolbar

The browser toolbar helps you select frequently used functions of the browser. The toolbar is displayed in normal screen mode and hidden in full screen mode.

Select ▦ > **Web**. To switch from full screen mode to normal mode, tap the screen and select ▣.

From the toolbar, select from the following:

📝 — Open and edit bookmarks.

➕ — Add a bookmark, add a shortcut to the desktop, or subscribe to an RSS feed.

✖ — Stop loading content.

◁ — View your recent browsing history.

▣ — Switch from normal to full screen mode.

Organise bookmarks
Add a bookmark

1 Select ▦ > **Web**.
2 Go to the web page for which you want to add a bookmark.
3 From the toolbar, select ➕ > **Add to bookmarks**.

You can change the name of the bookmark and select where to save the bookmark.

Add browser shortcuts to desktop

With browser shortcuts, you can quickly access bookmarked web pages.

1 Select ▦ > **Web**.
2 Go to a page you want to add a shortcut to.
3 From the toolbar, select ➕ > **Add shortcut to desktop**.

Import bookmarks

You can import bookmarks to your device from other devices and computers.

1 To export an HTML file containing bookmarks from another browser to your device, use the relevant function of that browser.
2 Transfer the exported file from the other browser to your device. You can use mail, copy to a memory card, or use a USB data cable, for example.
3 Select ▦ > **Web**, open the menu, and select **Import bookmarks** and the file.

The imported bookmarks are added to My bookmarks > Imported bookmarks.

Clear private data

A cache is a memory location that is used to store data temporarily. If you have tried to access or have accessed

confidential information requiring passwords, empty the cache after each use. The information or services you have accessed are stored in the cache.

1   Select ▦ > **Web**, and go to a web page.
2   Open the menu, and select **Options** > **Clear private data**.
3   Select from the following:

Browsing history — Clear the browsing history of web pages and links you have opened and web addresses you have entered using the application toolbar.

Cache — Clear the memory cache. The memory cache is automatically cleared whenever you close the browser application.

Cookies — Clear all cookies.

Saved passwords — Clear all passwords you have saved for authentication purposes and web forms.

Authenticated sessions — Clear all authenticated sessions.

Connection security

Data transmission between your device and a web server is encrypted if the secure server information banner is displayed. The security information includes the address of the website and the verification.

View security information for a website

Open the menu, and select **Details**.

Security certificates may be required for some services, such as banking services. You are notified if the identity of the server is not authentic or if you do not have the correct security certificate in your device.

Important: Even if the use of certificates makes the risks involved in remote connections and software installation considerably smaller, they must be used correctly in order to benefit from increased security. The existence of a certificate does not offer any protection by itself; the certificate manager must contain correct, authentic, or trusted certificates for increased security to be available. Certificates have a restricted lifetime. If "Expired certificate" or "Certificate not valid yet" is shown, even if the certificate should be valid, check that the current date and time in your device are correct.

Before changing any certificate settings, you must make sure that you really trust the owner of the certificate and that the certificate really belongs to the listed owner.

Download files

Important: Only install and use applications and other software from sources that you trust. Applications from untrusted sources may include malicious software that can access data stored in your device, cause financial harm, or damage your device.

1   Select ▦ > **Web**, and go to a web page that contains download links.
2   Select a link that points to the file that you want to download.

3 Select from the following:

Open with — Open the file in the appropriate application.

Save to device — Save the file to your device.

After a file transfer from an internet server starts, the name and size of the file and the progress of the download is displayed. Closing the dialog does not interrupt active downloads.

During the download, you can do the following:

Pause — Pause the download.

Resume — Continue the download. You may not be able to resume all paused files, because not all servers support it.

Delete — Cancel and delete the download.

Save web pages

You can save web pages to your device, to view them offline.

1 Go to the web page you want to save.
2 Open the menu, and select **Options** > **Save page as**.
3 Enter a name, select where to save the page, and select if you want to save the images also.
4 Select **Save**.

View browsing history

You can view and visit your most recently visited web pages. The browsing history contains the web pages you have visited in the current browser window. The complete browsing history contains all the web pages you have visited in the past seven days.

1 Select ▐▐▐ > **Web**, and go to a web page.
2 From the toolbar, select ◁.

   Tip: You can also access the recent browsing history by dragging your finger or the stylus from the right of the touch screen onto the screen.

3 Select a web page from the recent history, or select **Complete browsing history** and the desired date and web page.

Install add-ons

You can install XPI based add-ons for the browser.

Important: Only install and use applications and other software from sources that you trust. Applications from untrusted sources may include malicious software that can access data stored in your device, cause financial harm, or damage your device.

1 Select ▐▐▐ > **Web**, and go to a web page.
2 Open the menu, and select **Options** > **Add-ons**.
3 Select the desired installation file.

You can disable or enable add-ons. You may need to restart the browser.

Modify browser settings
Adjust view

You can change the way web pages are displayed in the browser.

1   Select ▦ > **Web**.
2   Open the menu, and select **Options** > **Adjust view**.
3   Select from the following:

Show images — To load and display all images, select **Always**. To display loaded images only, select **Only loaded**. To never load or display images, select **Never**.

Text size — Define the text size. To display the browser-defined text size, select **Normal**. To display 150% or 200% larger text, select **Large** or **Very large**.

Encoding — Text characters may not display correctly on web pages with different languages. To make a web page more readable, select the encoding that best matches the language of the web page.

Web settings

1   Select ▦ > **Web**, and open a web page.
2   Open the menu, and select **Options** > **Settings** and from the following:

Memory cache size (MB) — Define the amount of RAM you want to use as cache.

Enable JavaScript — JavaScript functionality is used on many websites. Websites may have malicious scripts and it can be safer not to run them. Some websites may not work at all without JavaScript enabled.

Open pop-ups — To allow all pop-up windows, select **Always**. To only allow pop-up windows that you open by selecting a link, select **Only requested**. To block all pop-up windows, select **Never**.

Enable password saving — Save passwords for web forms, on website login pages, for example. When this option is not selected, passwords are not filled in and you cannot save passwords. Cancelling this selection does not delete previously saved passwords.

Accept cookies — A cookie is data that a site saves in the cache memory of your device. Cookies contain information about your visits to websites. They help to identify you upon subsequent visits and retain information when you move between web pages. To accept the use of cookies, select **Always**. To be prompted before a cookie is stored, select **Ask first**. To prevent cookies from being stored, select **Never**.

Open initially in Full screen — Switch to full screen mode when a new window is opened.

Allow JavaScript pausing — Suspend the use of Flash and JavaScript whenever the browser window is open in the background.

It is recommended that you do not save passwords or use other similar features in web services or sites where you store personal data or content. This is especially important if unauthorised access to such web services or sites could cause you financial harm.

Organise your contacts

Add and edit contacts

When you open Contacts for the first time, the Get contacts dialog opens. You can import contacts from your SIM card, mobile phone, or other device.

Select ⊞⊞⊞ > **Contacts**. A list of all your stored contacts and their possible availability status, status message, and avatar image is displayed.

Add a new contact
1 Open the menu, and select **New contact**.
2 Enter the contact's first name and last name. Only one name field is required.
3 Enter a phone number. Define whether it is home or work number, and mobile or landline.
4 Enter a mail address. Define whether it is a home or work mail address.
5 To add an avatar image, select the placeholder image. Select a default avatar, or to use a different image, select **Browse**.
6 To add more details, select **Add field**. You can add details about, for example, addresses, birthdays, business details, mail addresses, nicknames, notes, phone numbers, SIP user names, titles, and websites.
7 Select **Save**.

You can also manually add contact user names for different internet services. If you set up your own account, the contacts are automatically imported from the server.

Edit a contact
1 Select the contact, open the menu, and select **Edit**.
2 Edit the contact's details.
   To add more details about the contact, select **Add field**.
   To remove details, select **Delete fields**. Select the details you want to delete and **Delete**. You cannot remove the first name, last name, or gender field.
3 Select **Save**.

Merge a contact
If you have duplicate contacts, do the following:

1 Select the contact, open the menu, and select **Merge contact**.
2 Select the contact to merge with.
   If the contact details have contradicting information or the merging was not successful, select the desired details and **Save**.

Delete a contact
1 Open the menu, and select **Delete contacts**.
2 Select the contacts to delete and **Delete**.
3 Confirm the deletion.

The contacts are also deleted from all possible services.

Related topics

Add and edit My information

My information is a view that contains your own contact details. You can also access your IM accounts or mail from this view.

Select **████** > **Contacts**, open the menu, and select **My information**.

Add My information manually

1 Enter your first name, last name, phone number, and mail address. Only one name field is required.

Your phone number is automatically imported from your SIM card if it is available. Other details, such as for internet call or chat services that you have set up an account for, may also be automatically imported. You cannot edit imported details.

2 To add an avatar manually, or change an automatically imported avatar, select the placeholder image. Select a default avatar, or to use a different image, select **Browse**.

Your avatar is automatically downloaded from the IM service. If you have more than one service set up, the avatar is picked randomly.

3 To add more details about yourself, select **Add field**.

4 Select **Save**.

In the My information view, the availability icon shows your availability status, status icon, and status message. To access the availability settings, select the icon.

Edit My information

1 Open the **My information** menu, and select **Edit**.

2 Edit the fields as necessary, and select **Save**.

Sort contacts

1 Select **████** > **Contacts**, and open the menu.

2 Select from the following:

ABC — Sort the contact list alphabetically.

Availability — Sort the list by availability status. Your contacts are listed by availability first, then in alphabetical order.

Recent — Sort the list according to recent activity. The contacts you have recently communicated with are listed first.

View groups

Open the menu, and select **Groups**.

View communication history

Select a contact, open the menu, and select **Communication history**.

Import and export contacts

You can import contact information from another device, IM accounts, a SIM card, or from a compatible file.

Import contacts

1 Select **████** > **Contacts**, open the menu, and select **Get contacts**.

2 Select from the following:

Synchronise from other device — Synchronise existing contacts from another device.

Import contacts from new account — Modify or create an IM account. When an IM account is created, the contacts of that account are imported.

Copy from SIM card — Copy all contacts from your SIM card automatically.

Import contacts file — Import contacts from a file stored in your device.

You can import contacts from files that have the .vcf file extension.

Export contacts

1 Select ▦ > **Contacts**, open the menu, and select **Export**. Select **Next**.

2 Select whether you want to export **All contacts** or **Selected contacts**, and select **Next**.

  If you selected **Selected contacts**, select the contacts you want to export, and then select **Done**.

3 Select the export file format, and select **Next**.

4 Define the folder name for the exported contacts, select a location for the folder, and select **Next**.

5 Select **Finish**.

Send contact cards

You can send contact cards in a text message or mail, or through Bluetooth connectivity.

Send a contact card

1 Select ▦ > **Contacts**.

2 Select the contact whose contact card you want to send. To send your own information, open the menu, select **My information**.

3 Open the menu, and select **Send contact card**.

4 Select the method to use to send the contact card.

5 Select the contact you want to send the card to, and select **Send**.

Send a contact detail

1 Select ▦ > **Contacts**.

2 Select the contact whose contact detail you want to send, open the menu, and select **Send contact detail**.

3 Select the contact detail you want to send.

4 Select the method to use to send the contact detail.

5 Select the contact you want to send the detail to, and select **Send**.

Add shortcuts to desktop

You can add shortcuts to contacts on the desktop. To open a list of available contact methods, select a contact.

Add a shortcut

Select ▦ > **Contacts**, select the contact you want to add the shortcut for, open the menu, and select **Create shortcut**.

You can only create one shortcut for a contact.

Synchronise your contacts

1 Select ⊞⊞ > **Contacts**.
2 Open the menu, and select **Get contacts** > **Synchronise from other device** > **Next**.
3 Select whether you want to transfer data from other Bluetooth devices, or to set up synchronisation to keep data updated on both devices. Select **Next**.
4 Select **Select device** and the desired device from the list.
5 Enter the identification number of the device you want to transfer data with, and select **Pair**.

Related topics

Contacts settings

Select ⊞⊞ > **Contacts**, open the menu, and select **Settings**.

Define how names are displayed

Select **Display names**. The default order is **First name Last name**.

Delete all contacts on the device

Select **Delete all contacts from device**. The contacts are removed from the device, but they can still be found on the server.

Make calls

About calls

You can make voice calls and internet calls with your device.

Tip: You can make a call to a person saved in Contacts using the physical keyboard. On the desktop, start entering the name of the person to open Contacts. Select the contact from the proposed matches, and select 📞.

You can also enter a phone number on the desktop using the physical keyboard. Press and hold ↗, and enter the number. In the virtual keypad view, select 📞.

Related topics

Proximity sensor

Your device has a proximity sensor. To prevent accidental selections, the touch screen is disabled automatically during calls when you place the device next to your ear.
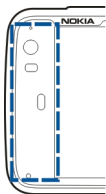
Do not cover the proximity sensor, for example, with protective film or tape.

Make voice calls
Make a call
Select > **Phone**.

Hold your device correctly during a call.

Select a recipient from the contacts list
Select **Select contact** and the contact. To search for a contact, use the physical keyboard to start entering the first characters of the name, and select from the proposed matches. If you have saved several numbers for a contact, select the desired number from the list.

If you hold the device in the portrait orientation, you can use the initial character icons on the right side of the display to find your contact.

Select a recipient from the recent calls list
The recent calls are listed in the Phone main view. Select a contact from the list to make the call.

Enter the phone number manually
Select and the cellular call type. Enter the phone number, including the area code.

Enter an international phone number
Select ***** twice to enter the **+** character (which replaces the international access code), and enter the country code, area code (omit the leading zero if necessary), and phone number.

Make the call
Select .

End the call
Select .

Cancel the call attempt
Select .

Tip: To add a contact card to the desktop, select **Contacts** and a contact. Select the contact's name from the menu and **Create shortcut**.

Answer a call

Answer a call

Select . If the incoming call has been diverted from another phone number, is displayed.

Reject a call

Select .

End an active call

Select .

Mute the ringing tone

Select .

Answer another call during a call

If call waiting (network service) is activated, select to answer a new incoming call. The first call is put on hold.

Make a conference call

Select > **Phone**.

Conference calls (network service) can only be made over cellular networks and can have a maximum of three participants (including yourself).

Call the first participant

Enter a participant's phone number, or select a contact from your contacts list.

Add an additional participant

Select **New call to contact** or **New call to number**.

Start the conference

Select **Start conference call**.

Talk to a participant privately

Select the participant and **Private**. This splits the conference call into two separate calls. To end one of the calls, select the call and **End**.

End the conference call

Select **End**.

Send DTMF tones

You can send dual-tone multifrequency (DTMF) tones during an active call to control your voice mailbox or other automated phone services.

1 During a call, select .
2 Enter the DTMF sequence.
   You can also enter the tone sequence using the keyboard.

Make internet calls
Internet calls

Internet calls are based on the voice over internet protocol (VoIP) that allows you to make and receive calls over the internet. To use this feature, you must have an active network connection (WLAN or packet data) and a registered internet call account with an internet call service provider, and your availability status must be **On** to allow you to receive calls.

Internet call services may not support emergency calls. Contact your internet call service provider for further details.

Related topics

Create and edit call accounts

With call accounts, you can use internet call or instant messaging services.

Select ![icon] > **Phone**.

Create a call account
1 Open the **Phone** menu, and select **Accounts** > **New**.
2 Select a service and **Register new account**.
3 Enter the user details.
   You can also create accounts in the Conversations application.

Sign in to an existing call account
1 Open the **Phone** menu, and select **Accounts** and the account.

2 Enter the user details, and select **Sign in**.
   When an existing account is taken into use, your contacts are automatically retrieved from the account server and added to Contacts.

Edit an account

Select an account, and edit your user name, password, or screen name.

Enable or disable an account

Select an account, and select or clear the **Enabled** checkbox.

Save account settings

Select **Save**.

Related topics

Make an internet call
1 Select ![icon] > **Phone**.
2 Connect your device to an internet connection, and select a VoIP service account. Your availability status changes to Online.
3 Select **Select contact** and a contact.
4 To end the call, select ![icon].

You can also make an internet call from the Contacts application.

Answer an internet call
Select 📞.

Options during a call

Options during an active call

Open the menu, and select from the following:

Hold call — Put the call on hold.

New call to number — Call another number to start a conference call.

New call to contact — Call a contact to start a conference call.

Options during a call that is on hold

To put a call on hold, open the menu, select **Hold call**.

Open the menu, and select from the following:

Activate call — Activate the call.

New call to number — Call another number to start a conference call.

New call to contact — Call a contact to start a conference call.

Mute the microphone
Select 🎤.

Activate the loudspeaker
Select **Speaker**.

Send DTMF tones
Select 🔢.

End the call
Select **End**.

The available options may vary depending on the call mode.

Call timers

You can view the duration of received and dialled calls. The duration of voice and internet calls is displayed separately.

Select 🔳 > **Phone**. Open the menu, and select **Call timers**.

Clear call timers

Select **Clear timers**. Both voice and internet call timers are cleared.

Emergency calls

Before making an emergency call, switch the device on, and check for adequate signal strength. If the screen and keys are locked, slide the lock switch on the side of the device to unlock them.

Important: This device operates using radio signals, wireless networks, landline networks, and user-programmed functions. Emergency calls can be made using the cellular phone.It is not possible to make an emergency call using voice calls over the internet (internet calls). Connections in all

conditions cannot be guaranteed. You should never rely solely on any wireless device for essential communications like medical emergencies.

Make an emergency call
1 Select > **Phone**.
2 Select and the cellular call type.
3 Enter the official emergency number for your present location.
4 Select to start the call.

Make an emergency call without entering PIN, PUK, or lock code
1 When the device asks for the code, enter the emergency number for your present location. The **Emergency call** icon appears.
2 Select **Emergency call** to make the call. After the emergency call, you need to enter the required PIN, PUK, or lock code to be able to use other device functions.

When making an emergency call, give all the necessary information as accurately as possible. Your wireless device may be the only means of communication at the scene of an accident. Do not end the call until given permission to do so.

Send text and instant messages

About Conversations

Select > **Conversations**.

In Conversations, you can send text and instant messages.

The services share the main view, where text message and instant message conversations are listed. Select a conversation to see the messages in it.

Tip: To call a contact from the conversations main view, select and hold a conversation to open a pop-up menu. Select **Open contact card**, and the call type. The information on the contact card depends on which details have been added to it.

Related topics

• See "Text message and instant message settings", p. 52.

Send text messages
Send a text message

1 Select > **Conversations**.
2 Select **New SMS**.
3 To add a recipient, select **To** and a contact, or enter a phone number.
4 Write your message in the message body. You cannot use the enter key to move to the next row (if you press the enter key, the message will be sent).

   To add a smiley, select the desired smiley.
5 Select **Send**.

Text messages are displayed in the main view as a conversations list.

Your device supports text messages beyond the limit for a single message. Longer messages are sent as two or more

messages. Your service provider may charge accordingly. Characters with accents, other marks, or some language options take more space, and limit the number of characters that can be sent in a single message.

Forward a text message
1 Select ▦ > **Conversations**.
2 Select the conversation and then the text message.
3 Select **Forward**.

Send a contact card
1 Select ▦ > **Contacts** and a contact.
2 Open the menu, and select from the following:

   Send contact card — Send all the contact details.
   Send contact detail — Send a specific contact detail only.
3 Select whether the card is sent as a text message, using Bluetooth connectivity, or as a mail message.
4 Select the message recipient, or enter a phone number.
5 Select **Send**.

Save a received contact card
1 Select ▦ > **Conversations**.
2 Open the conversation with the received text message, and select the contact card link.
3 Select if you want to save the contact card as a new contact or update existing contact card information.

Send instant messages
Create and sign in to an instant messaging account
To send instant messages, you must create an instant messaging account.

Select ▦ > **Conversations**, open the menu, and select **VoIP and IM accounts**.

Create an instant messaging account
1 Select **New**.
2 Select a service and **Register new account**.
3 Enter your user details. Depending on the service, you may have to set up an account using a web browser. Follow the instructions.

Sign in to an existing instant messaging account
Enter your user details, and select **Sign in**.

When an existing account is activated, your contacts are automatically fetched from the account server and added to your contacts list.

Send an instant message
1 Select ▦ > **Conversations**.
2 Select **New IM** and a contact, or open the menu, select **Chat with**, and enter an instant messaging address.
3 Write your message in the message editor.
   To add a smiley, select the desired smiley.
4 Select ◁.

Save and view instant messaging history

Your instant messaging history is saved automatically.

To view your instant messaging history, select ▦ > **Conversations**, and a conversation.

Change avatars

1 Select ▦ > **Conversations**.
2 Open the menu, and select **Accounts** and the account for which you want to change the avatar image.
3 Select **Avatar** and the desired avatar, or select **Browse** to browse your device memory for images.
4 To save the avatar, select **Save**.

You can also change your avatar by modifying the account settings.

Related topics

• See "Account settings", p. 51.

Change availability status

Select the status bar, **Availability**, and from the following:

Online, **Busy**, or **Offline** — Set your availability status.

Type your status message — Enter your availability status message.

My location — Define your current location.

New status — Add a new availability profile. With availability profiles, you can modify your availability separately for each account.

Account settings

1 Select ▦ > **Conversations**.
2 Open the **Conversations** menu, and select **Accounts**.
3 Select an account, and define the following:

User name and **Password** — Enter your user name and password.
Screen name — Enter your screen name.
Avatar — Select an avatar image.
Edit personal info — Edit your personal information.
Enabled — Enable or disable the account.

4 Select **Save**.

Delete messages and conversations

Select ▦ > **Conversations**.

Delete a text message

1 Select a conversation and a text message.
2 Select **Delete**.

Delete all text messages in one conversation

1 Open the conversation.
2 Open the menu, and select **Clear conversation**.

Delete conversations

1 Open the menu, and select **Delete conversations**.
2 Select the desired conversation or conversations and **Delete**.

Filter conversations

To open the filter bar to find a specific conversation, start entering search terms using the keyboard. Matching conversations which include the entered search terms are displayed in the conversations list view.

Text message and instant message settings

1 Select ⊞ > **Conversations**.
2 Open the **Conversations** menu, select **Settings** and from the following:

Receive SMS delivery reports — Select whether to receive text message delivery reports.

SMS centre number — Use the text message centre number stored on your SIM card, or define another number.

3 Select **Save**.

Mail

About mail

You can access your personal mail accounts from your device, using Nokia Messaging. You can synchronise your mail from a single mailbox (default mailbox) or multiple mailboxes. Nokia Messaging enables push-synchronising to regular IMAP mail servers, such as Yahoo or Gmail.

You can also access your work mail, using Mail for Exchange. You can read and reply to mails, view and edit compatible attachments, and manage your calendar and contact information.

Related topics

Read your work mail using Mail for Exchange

With Mail for Exchange, you can receive your work mail to your device. You can read and reply to your mails, view and edit compatible attachments, view calendar information, receive and reply to meeting requests, schedule meetings, and view, add, and edit contact information.

Mail for Exchange can be set up only if your company has Microsoft Exchange server. In addition, your company's IT administrator must have activated Microsoft Exchange ActiveSync for your account.

ActiveSync

Use of the Mail for Exchange is limited to over-the-air synchronisation of PIM information between the Nokia device and the authorised Microsoft Exchange server.

Before starting to set up Mail for Exchange, ensure that you have the following:

- A corporate mail address
- Your Exchange server name (contact your company's IT department)
- Your network domain name (contact your company's IT department)

• Your office network password

Depending on your company's Exchange server configuration, you may need to enter other information in addition to those listed. If you do not know the correct information, contact your company's IT department.

With Mail for Exchange, the use of the lock code may be mandatory. The default lock code of your device is 12345, but your company's IT administrator may have set a different one for you to use.

Set up your mail
Set up a Nokia Messaging account
You can have only one Nokia Messaging account set up in your device.

1 Select ▒▒ > **E-mail**.
2 Open the menu, and select **New account**
3 Define the following:

   Region — Select your country or region.
   Service provider — Select **Nokia Messaging**.
4 Define the following mandatory information:

   E-mail address and **Password** — Enter a mail address and password.
5 Select **Finish**.

Set up your other mail
To send and receive mail messages, you must have an active network connection and a mail account with a mail service provider. For the correct settings, contact your mail service provider.

Using mail services (for instance, retrieving messages automatically) may involve transmission of large amounts of data. Contact your network service provider for information about data transmission charges.

1 Select ▒▒ > **E-mail**.
2 Open the menu, and select **New account**.
3 For account details, define the following:

   Region — Select your country or region.
   Service provider — Select your mail service provider. If your mail service provider is not listed, select **Other**.
   Account title — Enter a title for the account.
4 For user details, define the following:

   Name — Enter your name. This name is displayed in the sender field of sent messages.
   User name and **Password** — Enter your user name and password for the mail service. They are needed when you log into your mailbox. If you leave the password field empty, you are prompted for a password when you try to connect to your mailbox on the mail server.
   E-mail address — Enter your mail address. It must contain the @ character. Replies to your messages are sent to this address.

5 If you selected **Other** as the mail service provider, define
   the following settings for incoming mail:

   Account type — Select the mail protocol (POP3 or IMAP4)
   recommended by your mail service provider. IMAP4 is
   more modern and typically enables more functionality.
   Some functionality may be restricted with POP3.

   You cannot change this setting after you save the account
   settings or exit the wizard.
   Incoming server — Enter the host name or IP address
   of the POP3 or IMAP4 server that receives your mail.
   Secure authentication — Set the system to use secure
   authentication.

   If you do not use secure connections, it is strongly
   recommended that you enable secure authentication.
   For information on the supported methods, contact your
   mail service provider.
   Secure connection — Define the security setting for
   incoming messages.

   If you access your mail over a wireless LAN (WLAN), it is
   strongly recommended that you use secure connections.
   For information on the supported secure connections,
   contact your mail service provider.

   Tip: Usually, the incoming mailbox servers (POP3 or
   IMAP4) are provided by your mail service provider, and
   the outgoing mail server (SMTP) is provided by your
   internet service provider. If these service providers are

   different, you may have different passwords and security
   settings for incoming and outgoing messages.

6 Simple mail transfer protocol (SMTP) servers are used
   when sending mail. To send mail, you must define the
   SMTP host name or IP address that you obtain from the
   mail service provider of the connection you use.

   If you selected **Other** as the mail service provider, define
   the following settings for outgoing mail:

   Outgoing server — Enter the host name or IP address
   of the server that sends your mail.
   Secure authentication — Set the system to use secure
   authentication.
   Secure connection — Define the security setting for
   outgoing messages.
   Use connection-specific SMTP servers — Use
   connection-specific SMTP servers for sending mail. To
   edit connection-specific SMTP server settings, select **Edit
   SMTP servers**.

   Tip: The settings for outgoing mail (SMTP) usually either
   use a user name and a password, or are specific to a
   connection. Without an SMTP user name and password,
   your internet service provider may prevent you from
   sending mail for security reasons.

7 To complete the mail account setup, select **Finish**.

Set up a Mail for Exchange account

To be able to use Mail for Exchange, you need a Mail for
Exchange account.

To set up an account:

1 Select ⚏ > **E-mail**, open the menu, and select **New account**.
2 Define the following:

Region — Select the correct region.
Service provider — Select **Mail for Exchange**.
3 Define the following:

Mail address — Enter your mail address.
User name — Enter your user name.
Password — Enter your password.
Domain — Enter the domain name. This field is not mandatory.
4 Define the following:

Server — Enter the server address.
Port — Enter the port number for the Mail for Exchange server connection. The field is pre-filled with the standard HTTPS Mail for Exchange port number.
Secure connection — Use a secure connection.
5 On the **Synchronisation content** page of the wizard, define the following:

E-mail — Enable mail synchronisation.
Calendar and tasks — Enable calendar and task synchronisation.
Contacts — Enable contact synchronisation.

First synchronisation — If you have enabled contact synchronisation, you need to select if you want to remove all local contacts when the device synchronises for the first time. **Keep items on device** is selected by default.
6 To modify advanced settings, select **Advanced settings**.
7 Select **Finish**.

Read and send mail
Retrieve and read mail messages
Select ⚏ > **E-mail**.

Your device can automatically receive the mail messages sent to you.

Retrieve mail messages manually
1 Open the menu, and select **Send & receive**. The messages are retrieved for all accounts.

If you want to receive messages only from a specific account, select the desired account, open the menu, and select **Send & receive**.

When retrieving mail, all messages in the Outbox folder are sent.
2 To retrieve the contents of a selected message, select the message header.

Read a mail message
To open a message, select the header of the message.

If new mail messages are received while the mail application is closed, a notification is displayed. To open a new message, select the notification.

Reply to a received mail message

Select ![reply icon] to reply to the sender, or ![reply all icon] to reply to the sender and the other recipients of the mail message.

Forward a received mail message

Open the menu, and select **Forward**.

Mark a mail message as read or unread

Open the menu, and select **Mark as read** or **Mark as unread**.

Move to previous or following mail message

Select ◁ or ▷.

Delete a mail message

Select ![trash icon].

Create and send mail messages

1 Select ![grid icon] > **E-mail**.
2 Select **New message**.
3 Enter a mail address, or select recipients from the contacts list.

   To separate multiple recipients, add a semicolon (;) or a comma (,). Use the Cc field to send a copy, or the Bcc field to send a blind copy to other recipients. If the Cc or Bcc

field is not visible, open the menu, and select **Show Cc** or **Show Bcc**.

   Tip: You can also view the mail addresses of recipients. To do this, enter the recipients' names, open the menu, and select **Check names**.
4 Enter the subject, and write the message. To change the font face, size, and colour of text in the message, select the icons from the toolbar.
5 Select ![send icon].

Message settings

You can define a priority level for your mail message, and define whether the message is sent as formatted text (HTML) or plain text.

When writing a message, open the menu, and select **Message settings**.

Define the priority level

Select **Low**, **Normal** (default), or **High**.

Define the text format

Select **Formatted text** (default) or **Plain text**.

Add, save, and delete attachments

To open an attachment in a mail message, select the message and then the attachment.

Add an attachment to a mail message
Open the menu, and select **Add attachment**.

Save an attachment
Select the attachment and **Save attachments**. Enter a name for the attachment, and select **Save**.

Delete an attachment
Open the menu, and select **Remove attachments**.

Create a mail signature
1   Select **⊞** > **E-mail**.
2   Select **Edit account** and the desired account.
3   Select **Signature**.
4   Select the **Use signature** check box.
5   Enter your signature, and select **Save**.

The signature is added to the end of the body text of all messages you send using this account. You can edit and delete the signature before you send the mail message.

Tips for creating mail messages

Insert an image to the body of a mail message
Select **Insert image**.

Copy text from a mail message
1   Tap the message at the point where you want to start copying.

2   Press and hold the shift key, and tap the point where you want to stop copying.
3   Press ctrl + C to copy the text, and ctrl + V to paste it to another location.

Organise your mail
Organise mail messages and attachments
Select **⊞** > **E-mail**.

To sort messages in mail folders, select the folder, then **Sort** and the desired sorting method and order.

Search within a mail message
1   Select **⊞** > **E-mail**.
2   Open a mail message.
3   Open the menu, and select **Find in message**. The search bar is displayed.
4   Enter the search terms to the search bar, and select enter. Matching terms are highlighted.

Delete mail messages

To delete a mail message, select the message and 🗑.

For POP3 accounts, if you have activated the **Leave messages on server** option in the incoming mail settings, the message is only deleted from your device. If you deactivate the option and want to delete the message from the server, select the message and **Delete**.

For IMAP4 accounts, the messages you delete are always deleted from the server.

Synchronise with Mail for Exchange

Synchronisation takes place automatically in intervals that you have defined when setting up the Mail for Exchange account. You can also start the synchronisation manually at any time.

Only the content that you have defined when setting up the account is synchronised. If you want to synchronise more content, modify the Mail for Exchange settings.

Start the synchronisation manually
Select **Synchronise manually**.

Related topics

Modify mail settings
Mail account settings

Select **▊▊▊** > **E-mail**.

Open the **E-mail** menu, and select **Edit account** and an account. Ensure that you are not connected to the mailbox.

For the correct settings, contact your mail service provider.

Account details

Select **Account details** and from the following:

Account title — Enter a title for the account.

Leave messages on server — For POP3 accounts only. Set the device to leave a copy of retrieved messages on the server.

User details

Select **User details** and from the following:

Name — Enter a name that is displayed as the sender in messages.

User name and **Password** — Enter your user name and password for the mail service.

E-mail address — Enter your mail address.

Signature — Edit your signature.

Settings for incoming mail

Select **Incoming details** and from the following:

Incoming server — Enter the host name or IP address of the POP3 or IMAP4 server that receives your mail.

Secure connection — Define the security setting for incoming messages. Follow the instructions from your mail service provider.

Port — Enter the port number. Follow the instructions from your mail service provider.

Secure authentication — Set the system to use secure authentication.

Settings for outgoing mail

Select **Outgoing details** and from the following:

Outgoing server — Enter the host name or IP address of the SMTP server that sends your mail.

Secure authentication — Set the system to use secure authentication.

User name and **Password** — Enter your user name and password for the SMTP server.

Secure connection — Define the security setting for outgoing messages.

Port — Enter the port number. Follow the instructions from your mail service provider.

Use connection-specific SMTP servers — Use connection-specific SMTP servers for sending mail messages. To edit SMTP server settings, select **Edit SMTP servers**.

Mail settings

1 Select **▦▦** > **E-mail**.
2 Open the **E-mail** menu, and select **Settings**.
3 Select an account, and define the following:

Default account — Define which account is the default account. The first account created is set as default.

New message format — Select the format of new mail messages. The default value is Formatted text (HTML).

Update automatically — Set the device to retrieve messages automatically.

Update when connected via — Define which connection type is used to retrieve mail automatically.

Update interval — Define how often messages are retrieved. The default value is 15 minutes.

Nokia Messaging settings

Select **▦▦** > **E-mail** and **Edit account** > **Nokia Messaging**.

View user details

Select **Service info**. You cannot edit these fields.

Modify Nokia Messaging settings

Select **Synchronisation**. Define the following:

Days — Select the days on which you want the synchronisation to be done.

Hours — Select the time during which you want the synchronisation to be done on the selected days.

Sync while roaming — Select this option if you want synchronisation to be done when you are roaming outside your home network.

Disable sync when — Define a level of battery power at which you want synchronisation to stop.

Send and receive — Define the synchronisation interval.

Sync inbox — Select this option if you want your inbox to be synchronised.

Download size — Select if you want to download only the mail message header, partial message or full message.

Remove items older than — Select a time period after which mail messages are deleted from the device.

Sync drafts — Select this option if you want the mail messages in your drafts folder to be synchronised.

Sync sent items — Select this option if you want the mail messages in your sent items folder to be synchronised.

Add or modify mailboxes

1 Select **Nokia Messaging: Mailboxes**.
2 To add a new mailbox, select **Add new mailbox**. The title of each mailbox is retrieved from the Nokia Messaging server. Select a mailbox.
3 To modify a mailbox, select the mailbox. Edit the information as necessary.

Mailbox name — Modify the mailbox name.
Sync read to server — Select this option if you want the read status of your mails to be synchronised to the server.
My name — Modify your name.
Password — Modify your password.
E-mail address — Your mail address. You cannot modify this field.
Use signature — To use a signature, select the check box, and **Signature**. Enter the signature, and select **Done**.

Mail for Exchange settings

Select **+++** > **E-mail**. Open the menu, and select **Edit account** > **Mail for Exchange**.

View synchronisation details

Select **Details**. The number of items that were added, updated, or deleted in the last synchronisation are displayed.

To modify Mail for Exchange settings, select **Settings** and from the following:

Synchronisation schedule

Peak start time and **Peak end time** — Select a start and end time for the peak period.
Peak days — Select the days of the week when you want the peak times to apply. You must select at least one day.
Peak schedule — Select a synchronisation interval for peak periods. If you select **Always on**, new received messages and other changes on the server are pushed into the device without delay.
Off-peak schedule — Select a synchronisation interval for off-peak periods.

Connection

Server — Edit the address of the Exchange server.
Port — Edit the port number for the Exchange server connection.
Secure connection — Use a secure connection.
Conflict resolution — Define which item is kept if it has been edited on both the device and server since the last synchronisation.

Credentials

User name — Edit your Exchange server user name.
Password — Edit your Exchange server password.
Domain — Edit your domain on the Exchange server.

E-mail

Synchronise e-mail — Enable mail synchronisation.
E-mail address — Edit your mail address.

Account title — Edit the account title.

Signature — Use a signature in the mail messages sent from your Mail for Exchange account.

Synchronise messages back — Define how old messages are synchronised from the server.

When sending e-mail — Define if outgoing messages are sent immediately or only at the next synchronisation.

Copy outgoing e-mails — Copy sent mail to the Sent folder on the server side.

Calendar and tasks

Synchronise calendar and tasks — Enable calendar and task synchronisation.

Calendar — Define which calendar is used for Mail for Exchange.

Synchronise calendar back — Define how old calendar events and tasks are synchronised with the server.

Synchronise completed tasks — Include completed tasks in the synchronisation.

Contacts

Synchronise contacts — Enable contact synchronisation.

First synchronisation — Define whether all local contacts are removed when the device synchronises with the server for the first time.

Resynchronisation

Full resynchronisation — Start full resynchronisation.

The available options may vary.

Related topics

Configure connection specific SMTP servers

Configuring connection specific SMTP servers enables the mail application to connect to an SMTP server and send mails when you are roaming between connections of different mail service providers.

1 If you want to use connection specific SMTP servers,
   ⊞ > **E-mail**, open the menu, and select **Edit account**.
2 Select the desired account.
3 Select **Use connection-specific SMTP servers**.
4 To edit SMTP servers, select **Edit SMTP servers**. Make the changes, and select **Save**.

Capture images and record video clips

Your device supports an image capture resolution of 2576x1921 pixels (5 megapixels). The image resolution in this guide may appear different.

Camera
Activate the camera

Open the lens cover. If the camera is active in the background, and the lens cover is open, press the capture key to activate the camera.

Capture images
Image indicators

The indicators in the camera viewfinder area display the current camera settings. The indicators in image mode are the following:

1. Close
2. Scene mode in use (for example, ⒶAutomatic)
3. Capture settings (✎)
4. Flash mode in use (for example, ⒜Automatic)
5. Photos (⌷)
6. Zoom level (hidden at the default zoom level)
7. Autofocus crosshair (ˎ˒ , not shown in all image modes)
8. Image counter (estimated number of images you can capture using the current settings and available memory)
9. Memory in use (for example, ⌷Internal storage)
10. Image resolution (for example, ▦)
11. White balance (for example, ⌗). Only visible if set to other than **Automatic**.

12. Exposure (for example, ⊹1). Only visible if set to other than 0.
13. ISO sensitivity (for example, ⒤). Only visible if set to other than **Automatic**.
14. Geotag (⌗ , if geotagging is enabled). The icon blinks when the coordinates for the location are being retrieved.

Related topics

- See "Scene modes", p. 65.
- See "Image settings", p. 66.
- See "Flash settings", p. 66.
- See "General settings", p. 67.

Capture images

When capturing an image, note the following:

- Use both hands to keep the camera still.
- The quality of a digitally zoomed image is lower than that of a non-zoomed image.
- The camera goes into battery saving mode if you perform no actions for about a minute. To continue capturing images, activate the touch screen.

Keep a safe distance when using the flash. Do not use the flash on people or animals at close range. Do not cover the flash while taking a picture.

Capture an image
1. To activate the camera, open the lens cover.

2 To switch from video mode to image mode, select ⌐.
3 To lock the focus on an object, press the capture key
   halfway down. A green locked focus indicator is
   displayed. If the focus was not locked, a red focus
   indicator is displayed. Release the capture key, and press
   it halfway down again. You can also capture an image
   without locking the focus.
4 To capture an image, press the capture key all the way
   down. Do not move the device before the image is saved.

Zoom in or out
Use the volume keys.

Switch between normal and full screen mode
Tap the viewfinder area.

Related topics
• See "Touch screen actions", p. 18.

Geotag images and video clips
If you have enabled geotagging, the device saves geotag
information such as country, city, and suburb, of every image
and video clip you capture or record.

You need an internet connection to be able to add geotag
information to your files.

It may take several minutes to obtain the geotag information.
The availability and quality of GPS signals may be affected by
your location, buildings, natural obstacles, and weather
conditions. Your geotag information is not saved anywhere

else than your device. If you share a file that includes geotag
information, also the geotag information is shared, and your
location may be visible to third parties viewing the file.

Enable geotagging
When you activate the camera for the first time, the device
asks you whether you want to enable geotagging. To enable
geotagging later, do the following:

1 Select ▦ > **Camera**.
2 Open the **Camera** menu, and select **Geotagging**.
3 Select the **Enable geotagging** check box and **Done**.

Related topics
• "View images with Photos "

After capturing an image
After you have captured an image, the post-capture view is
displayed. In this view, you can, for example, delete the
image or edit the tags of the image.

If you have set **Show captured image** to **No** in the general
camera settings, the camera returns to the pre-capture view,
and the post-capture view is not displayed. In this case, you
can edit the image in Photos.

In the post-capture view, if the image you captured is
successfully geotagged, the country, city, and suburb geotags
are displayed. If the geotags are not readily available at the
moment of capture, the device tries to retrieve the geotags.
Acquiring geotags is displayed.

After capturing an image, select from the following:

$\Diamond$ — Return to the pre-capture view.

$\Diamond$ — Edit image tags and geotags.

$\Diamond$ — Share your image with others.

$\widehat{\overline{\text{m}}}$ — Delete the image.

$\swarrow$ — Open the Photos application.

You cannot zoom images in the post-capture view.

Related topics

Record video clips
Video indicators

The indicators in the camera viewfinder area display the current camera settings. The indicators in video mode are the following:
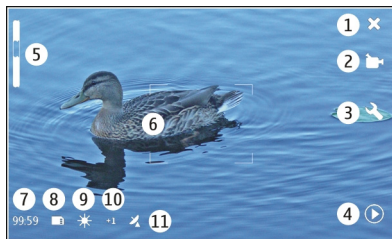
1 Close
2 Scene mode in use (for example, $\bigcap$ **Automatic video**)
3 Capture settings ($\mathbb{Q}$)
4 Media player ($\bigcirc$)
5 Zoom level (hidden at the default zoom level)
6 Autofocus crosshair ( )
7 Time remaining. Estimated total video recording time, using the current settings and available memory.
8 Memory in use (for example, $\boxed{}$)
9 White balance (for example, $\frac{1}{2}$). Only visible if set to other than **Automatic**.
10 Exposure (for example, $\oplus 1$). Only visible if set to other than 0.
11 Geotag ($\mathbb{X}$, visible if geotagging is enabled). The icon blinks when the coordinates for the location are being retrieved.

Related topics

Record video clips
Start recording
1 To activate the camera, open the lens cover.
2 To switch from image mode to video mode, if necessary, select 𝔸.
3 To lock the focus on an object, press the capture key halfway down. A green locked focus indicator is displayed. If the focus was not locked, a red focus indicator is displayed. Release the capture key, and press it halfway down again. You can also record a video clip without locking the focus.
4 To start recording, press the capture key all the way down.

The elapsed recording time is displayed in red.

Stop recording
Press the capture key.

Switch between normal and full screen mode
Tap the viewfinder area.

After recording a video clip
After you have recorded a video clip, the post-recording view is displayed. In this view, you can, for example, delete the video clip or edit tags.

If you have selected **Show captured video** > **No** in the general camera settings, the camera returns to the pre-recording view, and the post-recording view is not displayed.

In the post-recording view, select from the following:

◁ — Return to the pre-recording view.

◌ — Edit video clip tags and geotags.

∝ — Share your video clip with others.

🗑 — Delete the video clip.

▷ — Open Media player, and play the video clip.

Related topics

Change camera settings
Scene modes
When you activate the camera, the last used scene mode is in use.

Select ▦ > **Camera** and 𝔸.

Select from the following:

𝔸 **Automatic** — The default image scene mode. Capture images in a variety of situations.

◠ **Automatic video** — The default video scene mode. Record video clips in a variety of situations.

⛰ **Macro** — Focus on close up objects. The images may be susceptible to noticeable camera shake.

⛰ **Landscape** — Capture landscape images with clear outlines, colours, and contrast.

⛰ **Action** — Capture fast moving objects, using a short exposure time. You can capture successive images rapidly. The auto-focus crosshair is not displayed.

⛰ **Portrait** — Capture portraits of people, in good lighting conditions.

Image settings

If you change the scene mode, the white balance, exposure, and ISO sensitivity settings are reset to defaults. The image resolution remains the same.

1 Select ▦▦ > **Camera** and ✎.
2 Select from the following:

   White balance — Select the current lighting conditions. Colours are reproduced more accurately.

   Exposure — Adjust the exposure compensation. If you are capturing a dark subject against a very light background, such as snow, adjust the exposure to +1 or to +2 to compensate for the brightness of the background. For light subjects against a dark background, use -1 or -2.

   ISO sensitivity — Adjust the light sensitivity. Increase the light sensitivity in low light conditions, to avoid underexposed and out of focus images. Increasing the light sensitivity may also increase the image noise.

   Resolution — Select the image resolution.

Video settings

1 Select ▦▦ > **Camera**.
2 Select ⛰ to switch from image mode to video mode, if necessary.
3 Select ✎ and from the following:

   White balance — Select the current lighting conditions. Colours are reproduced more accurately.

   Exposure — Adjust the exposure compensation. If you are filming a dark subject against a very light background, such as snow, adjust the exposure to +1 or to +2 to compensate for the brightness of the background. For light subjects against a dark background, use -1 or -2.

Flash settings

Keep a safe distance when using the flash. Do not use the flash on people or animals at close range. Do not cover the flash while taking a picture.

If you change the scene mode, the flash settings are reset to defaults.

1 Select ▦▦ > **Camera** and ⛰.
2 Select from the following:

   ⛰ **Automatic** — The flash is used automatically, if the lighting conditions require it.

⚡ **Always on** — The flash is always used. Captured images may be overexposed.

⊚ **Red eye reduction** — A pre-flash is used, to reduce the red eye effect.

⚡ **Always off** — The flash is not used. Captured images may be underexposed and out of focus.

General settings

1 Select ▦ > **Camera** and ▭.
2 Select from the following:

Memory in use — Select **Internal storage** or a memory card, if inserted. Files are stored in the Camera folder. If the folder does not exist, the camera creates it.

Creator name — Enter a name that is automatically inserted into the metadata of your captured images or recorded video clips.

Show captured image — Define how long images are displayed after being captured. If you do not want the image to be displayed at all, select **No**. This setting is available if the image mode is in use.

Show captured video — Define how long video clips are displayed after being recorded. If you do not want the video to be displayed at all, select **No**. This setting is available if the video mode is in use.

View images with Photos
View images

With Photos, you can view images as thumbnails in a grid, or full images individually. You can zoom, pan, and edit images

and image tags. You can also view slide shows, use a TV-out cable to view images on a TV, and share images with your friends.

View images in a grid

Select and hold the image to share, delete, mark or unmark as favourite, or view image details.

In the grid view, you can view and browse through multiple images inside one folder or filter set. The images are displayed as thumbnails. Small icons on the thumbnails indicate metadata, such as tags.
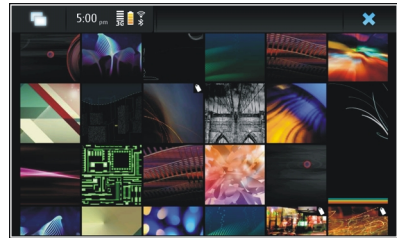
View an image in full screen mode

Select the image from the grid.

View images as a slide show

In full screen mode, select ▨. To stop the slide show, select anywhere on the display.

To view images on a TV screen, connect a compatible TV-out cable to your device.

Related topics

- See "Edit tags", p. 69.
- See "Sort images", p. 68.
- See "Modify Photos settings", p. 69.
- See "Share your images and video clips ", p. 69.

TV-out settings

1. Select **▦** > **Settings** and **TV out**.
2. Select **PAL** (default, used in Europe, for example) or **NTSC** (used in North America, for example).
3. Select **Save**.

Sort images

Select **▦** > **Photos**, and open the menu.

Sort images by date

Select **Filter by date**, and select whether to view images from a certain day or period of time.

Sort images by tags

Select **Filter by tags**, and select terms that should be in the metadata of the images you want to view.

Sort images by folders

1. Select **Filter by folder**.
2. Select from the following:

Camera default folder — View the folder where the Camera application saves captured images.

Custom folder — Select the folder you want to view.

All images — View all images that are found in the device or on a memory card, if available.

Modify images

Select **▦** > **Photos**.

Open an image for editing

1. Select the image you want to modify from the grid. The image is displayed in full screen mode.
2. Tap the image.
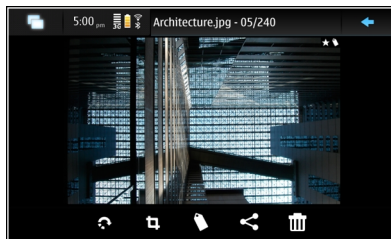
Rotate an image

Select ⟳.

Crop an image

Select ⬚.

Delete an image

Select 🗑.

Share an image

Select ⬠.

Undo or redo an action

Select 🔁 or 🔄.

Use other editing options

Open the menu, and select **Edit image**. You can, for example, resize and image, flip an image horizontally or vertically, or adjust the brightness and contrast settings.

Edit tags

You can create new tags, edit previously created tags, add or edit location information, or remove tags from images.

Select **▦▦▦** > **Photos**.

1 Select the image that you want to edit.
2 In normal screen mode, select 🖊.

   You can also edit multiple images' tags in grid view mode. Open the menu, and select **Edit images' tags** and the images that you want to edit.
3 Select the desired tags from the cloud and **Done**.

Edit location information

Select **Geotags**. Geotag items must be selected individually.

Create a new tag

Select **New**, enter a tag name, and select **Done**.

Modify Photos settings

1 Select **▦▦▦** > **Photos**.
2 Open the menu, and select **Settings**.
3 Define the following:

   Sort — By default, the thumbnails are in chronological order, starting with the oldest image. You can also sort images by name.
   Slideshow — Define the pace of slide shows.

Group images by month

To view images separated with month titles in the grid view, select **Group by month**.

Display metadata indicators

To see small metadata icons on the images that have metadata attached to them, select **Display metadata indicators**.

The options available for editing may vary.

Share your images and video clips

About sharing content

You can share your content, for example, images or video clips, by uploading them to internet services, such as Nokia

Ovi services or Flickr. To share, you must have a working internet connection and an existing sharing account.

Create a sharing account

To be able to send your content to different services, you need a sharing account. If you do not have an account, when trying to share, the device prompts you to create an account first. Follow the instructions on the display.

To create a new sharing account in advance, do the following:

1   Select ![icon] > **Settings** and **Sharing accounts** > **New**.
2   Select the service.
3   Enter the user name and password, and select **Validate**. Depending on the service, you may have to set up an account using a web browser. Follow the instructions on the display.

Related topics

•

Share items

1   Select the items you want to share and **Share via service**.
2   Enter a title and description, and select **Share**.

    You can edit the tags, select which sharing account to use, or modify the sharing options.

    When sharing multiple items, to edit the metadata of an individual image, tap the thumbnail of the image.

The changes you make to files when sharing will not affect the metadata of the actual content.

Related topics

•

Tags

When sharing content, you can see possible metadata indicators as small icons on the images' thumbnails.

![icon] — Title, description or tags are assigned to the image.

![icon] — The file contains GPS coordinates or information of the file creator. If the metadata is not yet selected to be removed, ![icon] is displayed.

Edit tags
Select **Tags**.

Related topics

•

Share items using Bluetooth connectivity

1   Select the items you want to send and **Send via Bluetooth**.
2   Select the device to which you want to send the items. You may need to pair with the device first.

Related topics

•

Send items using mail

Select the items you want to send, and select **Send via E-mail**.

Related topics

-

Modify sharing settings

1 When sharing content, select **Options** and from the following:

Image size — Define the image size.

Metadata — Define which content details are sent with the content.

Privacy — Define who can see the content in your Flickr account.

Album — Select the Ovi album for the content.

2 Select **Done**.

The settings available for editing may vary.

View sharing status

After selecting **Share**, the content is moved to the upload queue. In the status area, the status of the current upload is indicated with the following icons:

Sharing is ongoing.

Sharing is pending because there is no connection available. Open the status area menu and select the icon to try establishing a connection, or cancel the sharing.

Sharing is blocked because an error has occurred. Open the status area menu and select the icon to see more detailed information of the error, and retry or cancel the sharing.

When the upload is complete, the icon is removed from the status area.

Edit sharing account

Select ▦ > **Settings** and **Sharing accounts**. Select an account and **Edit**.

Ovi account

Change the password
Enter the new password, and select **Save**.

Remove the account
Select **Delete**.

If you are editing the account details using your device, you cannot change your user name.

Flickr account

Edit account details

Select **Edit**. Follow the instructions. Return to the account editing dialog, and select **Validate**.

Remove the account

Select **Delete**.

Flickr account details can only be edited using the browser.

Play music and video clips

About Media player

With Media player, you can listen to music and other audio files stored in your device or on a compatible memory card (if inserted) and audio streams from the internet. You can also play video clips or streamed video clips from the internet, and stream content from available media servers.

Select ▦ > **Media player**.

Listen to music
Select 🎧.

Play video clips
Select 🖵.

Listen to internet radio
Select 📻.

Shuffle between all songs
Select ✖.

Related topics

File formats

Select ▦ > **Media player**.

The supported video file formats are: 3GP, MOV, AVI, MP4, WMV, and ASF. Streaming performance depends on the bandwidth availability.

The supported audio file formats are: MP3, AAC, WMA, M4A, AMR, AWB, and WAV.

The Media player application supports M3U, PLS, ASX, WAX, WVX, and WPL playlists.

Media player does not necessarily support all features of a file format or all the variations of file formats.

Add the media widget to desktop

You can add the media widget to the device desktop. With the widget, you can control audio playback (music or internet radio), and display the media player's Now playing view.

Tap the desktop, and select > **Desktop menu** > **Add widget** > **Media player**.

Search for media files

1 Select > **Media player**.
2 In views that list media files, start entering search terms using the keyboard. The search bar becomes visible. Matching files are displayed.

Play music with Media player
Play music

Select > **Media player** and **Music**.

Play a song
Select ▶.

Pause playback
Select ▮▮.

Stop playback
Select ▮.

Play the next or previous song
Select ▶▮ or ▮◀.

Repeat the currently playing song
Select ▭.

Fast-forward or rewind
Select and hold ▶▮ or ▮◀.

Shuffle
Select ✕.

Adjust the volume

To open and close the volume controls, select ◀). Use the slider or volume keys to adjust the volume.

Browse the music library

Select > **Media player** and **Music**.

Music library view

Browse the music library
Select **All albums**, **All songs**, **Genres**, **Artists**, or **Playlists**.

Now playing view

Access the Now playing view
Select ▮▮▮.

Switch between the Now playing and current song views
Select the album art image.

In the Now playing view, you can access the FM transmitter, save the playlist, or clear the current playlist from the menu.

If you close and reopen the Media player application, the last selected view is used.

View playlists

The Media player library contains a default set of automatic playlists. The contents of the playlists are updated each time they are opened. You cannot edit or delete automatic playlists.

1 Select ▦ > **Media player** and **Music**.
2 Open the menu, and select **Playlists** and from the following:

Recently added — View recently added songs.

Recently played — View recently played songs.

Most played — View the most played songs.

Never played — View the songs you have never played.

Add songs to current playlists

Select ▦ > **Media player** and **Music**.

Add a song to the current playlist

Select a song and **Add to current playlist**.

The selected song is added to the Now playing view.

Add all songs in a library view to the current playlist

In a library view (Artists, Album, Songs), open the menu, and select **Add songs to current playlist**.

All music items on current library view are added to Now playing list.

Clear the Now playing list before adding new songs

In the Now playing view, open the menu, and select **Clear current playlist** (possible only in Now playing view for Music).

The playback is stopped and the previous view is shown.

Save playlists

1 Select ▦ > **Media player** and ▐▐.
2 To save the items in the Now playing view as a playlist, select **Save playlist**.
3 Enter a name for the playlist, and select **Save**.

Shuffle songs

With the shuffle feature, you can listen to songs from the Now playing view or playlists in a random order.

Select ▦ > **Media player**.

Shuffle songs

Select ✕.

Stop shuffling

Select ✕.

Use the FM transmitter
About the FM transmitter

With the FM transmitter, you can play songs in your device using a compatible FM receiver, such as a car radio or a home stereo system.

The availability of the FM transmitter may vary by country. At the time of writing, the FM transmitter may be used in the following European countries: Austria, Belgium, Bulgaria, Czech Republic, Denmark, Estonia, Finland, Germany, Iceland, Ireland, Lithuania, Liechtenstein, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Switzerland, Sweden, Turkey, and United Kingdom. For the latest information, and the list of non-European countries, see www.nokia.com/fmtransmitter.

The operating distance of the FM transmitter is up to a maximum of 3 metres (10 feet). The transmission may be subject to interference due to obstructions, such as walls, other electronic devices, or from public radio stations. The FM transmitter may cause interference to nearby FM receivers operating on the same frequency. To avoid interference, always search for a free FM frequency on the receiver before using the FM transmitter.

The operating frequency of the transmitter ranges from 88.1 to 107.9 MHz.

If the transmitter is not transmitting anything for one minute, it switches off automatically.

The FM transmitter cannot be used while the headset or TV-out cable is connected.

Play music using FM transmitter
Select ▦▦▦ > **Media player**.

1 Select a song to play, open the menu, and select **FM transmitter**.
2 To activate the FM transmitter, select **FM transmitter on**.
3 To select the frequency, select **Frequency**.

Calls are not broadcast using the FM transmitter. Playback is paused for the duration of the calls.

FM transmitter settings
1 Select ▦▦▦ > **Settings** and **FM transmitter**.
2 To activate the FM transmitter, select **FM transmitter on**.
3 To select the frequency, select **Frequency**.

Play video clips with Media player
Play video clips

Select ▦▦▦ > **Media player** and **Video**.

Play a video clip
Select ▶.

Fast-forward or rewind
Select and hold ▶❘ or ❘◀.

Adjust the volume

To open and close the volume controls, select ◁◯. Use the slider or the volume keys to adjust the volume.

Delete a video clip

Select 🗑.

Browse the video library

The video library contains video clips recorded with the device camera, transferred from your PC, or downloaded from the web, and bookmarked video streams.

1 Select ▦ > **Media player** and **Video**.
2 Open the menu, and filter the view by date or category.

Add video bookmarks

1 Select ▦ > **Media player**.
2 Select **Video** > **Video bookmarks** > **Add video bookmark**.
3 Enter the name and web address of the bookmark, and select **Save**.

You can also search for video streams in the browser. When the stream is playing, to save it as a bookmark, select **Add video bookmark** > **Save**.

Use TV-out to play video clips on your TV

Set the used television system

1 Select ▦ > **Settings** and **TV out**.

2 Select **PAL** (default, used in Europe, for example) or **NTSC** (used in North America, for example).
3 Select **Save**.

Play video clips on a TV

1 Connect a compatible TV-out cable to your device.
2 Select **Media player** > **Video** and a video clip.

You can make and answer calls when connected to the TV.

Play video clips from the internet

1 Select ▦ > **Media player**.
2 To play video clips streamed from the internet, select **Video** and a bookmark, or, when browsing the internet, select a video clip.

Listen to internet radio with Media player

Listen to internet radio

With Internet radio, you can listen to internet radio stations or other compatible audio streams. The Internet radio application supports MP3 and WMA files, and M3U, PLS, and WPL playlists. Some playlist file formats, such as ASX and WAX, are supported only partially.

Select ▦ > **Media player**.

Listen to a radio station

Select **Internet radio** and the desired station from the list.

Pause playback

Select ▮▮.

Stop listening
Select ■.

Listen to the next or previous radio station
Select ▶ or ◀.

Adjust the volume
To open and close the volume controls, select ◁. Use the slider or the volume keys to adjust the volume.

Add internet radio stations
Internet radio can include one or more web links to radio streams.

1 Select ▦ > **Media player** and **Internet radio**.
2 Open the menu, select **Add radio bookmark**, and enter the web address of the station. If you are already listening to a station, the details are automatically provided.
3 To save the station, select **Save**. The radio station is added to the Internet radio stations view.

Browse media servers
Select ▦ > **Media player**.

After scanning the wireless network, discovered media servers are displayed at the bottom of the main Media player view.

When you select a server, the root directory of the server is loaded and displayed. You can browse the servers and their content.

Find and view locations

Positioning (GPS)
About GPS

The coordinates in the GPS are expressed using the international WGS-84 coordinate system. The availability of the coordinates may vary by region.

The Global Positioning System (GPS) is operated by the government of the United States, which is solely responsible for its accuracy and maintenance. The accuracy of location data can be affected by adjustments to GPS satellites made by the United States government and is subject to change with the United States Department of Defense civil GPS policy and the Federal Radionavigation Plan. Accuracy can also be affected by poor satellite geometry. Availability and quality of GPS signals may be affected by your location, buildings, natural obstacles, and weather conditions. GPS signals may not be available inside buildings or underground and may be impaired by materials such as concrete and metal.

GPS should not be used for precise location measurement, and you should never rely solely on location data from the GPS receiver and cellular radio networks for positioning or navigation.

The trip meter has limited accuracy, and rounding errors may occur. Accuracy can also be affected by availability and quality of GPS signals.

Different positioning methods can be enabled or disabled in positioning settings.

Assisted GPS (A-GPS)

Your device also supports assisted GPS (A-GPS).

A-GPS requires network support.

Assisted GPS (A-GPS) is used to retrieve assistance data over a packet data connection, which assists in calculating the coordinates of your current location when your device is receiving signals from satellites.

When you activate A-GPS, your device receives useful satellite information from an assistance data server over the cellular network. With the help of assisted data, your device can obtain the GPS position more quickly.

Your device is preconfigured to use the Nokia A-GPS service, if no service provider-specific A-GPS settings are available. The assistance data is retrieved from the Nokia A-GPS service server only when needed.

You must have an internet access point defined in the device to retrieve assistance data from the Nokia A-GPS service over a packet data connection. You can define the access point for A-GPS in network positioning settings. A wireless LAN (WLAN) access point cannot be used for this service. Only a packet data internet access point can be used. Your device asks you to select the internet access point when GPS is used for the first time.

Related topics

Hold your device correctly

When using the GPS receiver, ensure you do not cover the antenna with your hand.

Establishing a GPS connection may take from a couple of seconds to several minutes. Establishing a GPS connection in a vehicle may take longer.

The GPS receiver draws its power from the device battery. Using the GPS receiver may drain the battery faster.

Position requests

You may receive a request from a network service to receive your position information. Service providers may offer information on local topics, such as weather or traffic conditions, based on the location of your device.

When you receive a position request, the service that is making the request is displayed. To allow your position information to be sent, select **Accept**. To deny the request, select **Reject**.

Location settings

Select ⊞ > **Settings** and **Location**.

GPS settings

Select from the following:

Enable — Activate the internal GPS receiver in your device. The GPS receiver is automatically activated when an application that uses GPS data is opened.

GPS device — Select the GPS receiver to use.

Pair new device — Pair an external GPS receiver with your device. Select the GPS receiver from the list of found devices.

Network positioning settings

Select from the following:

Enable — Activate the network-based positioning service (including A-GPS).

Location server — Enter the location server address.

Ovi Maps for mobile
About Maps

With Maps, you can see your current location on the map, browse maps of different cities and countries, search for places, and plan routes from one location to another.

When you open Maps, you may need to select an internet access point for streaming maps.

When you browse to a new area on the map, the map is streamed through the internet. Some maps may be available in your device or on a memory card.

Tip: To avoid data transfer costs, you can also use Maps without an internet connection, and browse the maps that are saved in your device or memory card.

Note: Downloading content such as maps, satellite images, voice files, guides or traffic information may involve transmission of large amounts of data (network service).

Almost all digital cartography is inaccurate and incomplete to some extent. Never rely solely on the cartography that you download for use in this device.

Related topics

Move on a map

View the map

Select your location from the main view.

Move on the map

Drag the map.

Zoom the map

Select **+** or **-**, or select ≛ and the country, state, city, or street view.

Rotate the map

Select ⟳, and drag the Ⓝ icon.

Change the map type

Select and the desired option.

Create a route to a location

Select the location information box and **Route**. Maps creates a route from your current position, if available.

Search for a place

1 Select **Find Places**.
2 Enter the search term in the search field.
3 Select from the list of suggested matches.

View the place on the map

Select the place.

Plan routes

You can create routes and view them on the map.

Create a route
1 Select **Route planner**. Maps automatically sets your current location as the starting point, if available. To change the starting point, select **Press here to set starting point manually.**, and search for the starting point or select it from the map.
2 Select **Add destination**, and search for the next place on your route, or select it from the map.
3 To add more places to the route, select **Add stopover**.

View the route directions

Select --- and **Directions**.

Change the route properties

Select --- and **Route Settings**.

Maps settings

Modify the settings

In the main view, select **Maps**.

Synchronise and transfer content from another device

Synchronise content

Synchronise with a compatible device for the first time

If you want to synchronise using Nokia PC Suite, you need to start the synchronisation from the PC. Otherwise, do the following:

1 Select ▓▓ > **Settings** and **Transfer & sync** > **Next** > **Synchronise data**.
2 Select the device with which you want to synchronise data. You may need to pair with the device.
3 Select which content you want to include in the synchronisation. If you synchronise calendar entries, select which calendar you want to use.
4 Select **Finish** to start the synchronisation.

The length of time needed to complete the synchronisation depends on the amount of data to be transferred.

Synchronise again

Select the desired synchronisation settings from the list, and select **Sync**.

Handle synchronisation conflicts

If an item to be synchronised has been edited in both devices, the device attempts to merge the changes automatically. If this is not possible, there is a synchronisation conflict. Select the version you want to save.

Related topics

Transfer data

Transfer data for the first time

1 Select ▦ > **Settings** and **Transfer & sync** > **Next**.
2 Select **Retrieve data** or **Send data**.
3 Select the device with which you want to transfer data. You may need to pair with the device.
4 Select which content you want to include in the data transfer.
5 Select **Finish** to start the data transfer.

Transfer content again

After a data transfer, the transfer details are saved in the Transfer & sync main view. You can later transfer data using the same settings.

To transfer content again, select the desired data transfer details from the list, and start the transfer.

Related topics

Manage transfer details

In the Transfer & sync main view, you can see the details of previous data transfers. You can modify, delete, or create new transfer settings.

Modify transfer details

1 Select the transfer details from the list.
2 Select **Content**.
3 Select which contents you want to include in the data transfer, and select **Done**.

Create new transfer details

Select **New**. A data transfer wizard opens, and you can start a new data transfer. The details are then stored in the main view list.

Delete transfer details

Select the transfer details from the list, and select **Delete** to clear the transfer details.

Deleting transfer details will not delete the content from the device.

Back up and restore data

About backups

You can back up data to the device mass memory or a compatible memory card, and if necessary, restore the data to the device. The backup appears as a folder on the device mass memory or memory card. You can also secure the backup with a password.

You can back up the following:

Communication and Calendar — Mail and chat messages and accounts, text messages, contacts in the Contacts application, calendar events, clock alarms, and alarm settings

Bookmarks — Bookmarks from web browsers

Settings — All application configurations

Application list — A list of the applications installed in your device

Create a new backup

1   Select ⊞ > **More...** > **Backup** and **New backup**.
2   Enter a descriptive name, define the desired location of the backup, and select **Proceed**.
3   Select the data types you want to back up.
4   If you want to protect the backup with a password, select the **Protect with password** check box, enter the password twice, and select **Done**.

Restore a backup

1   Select ⊞ > **More...** > **Backup**.

2   Select the desired backup and **Restore**.
3   Select the data types to restore.
4   Confirm that you want to restore the data.
     If the backup is password-protected, enter the password, and select **OK**.
5   If your device contains a newer version of the files than the backup you are restoring, the device asks you to confirm if you want to save the backed up version, or cancel data restore. Select from the following:

     Yes — The device overwrites the current version with the backed up file.
     Yes to all — The device overwrites all conflicting files without further confirmation.
     No — The version on the device is not replaced.

Update software and install applications

About Application manager
Select ⊞ > **More...** > **App manager**.

Application manager allows you to install new applications and other extensions from application catalogues (repositories). You can also list, update, and uninstall packages.

Important: Only install and use applications and other software from sources that you trust. Applications from untrusted sources may include malicious software that can access data stored in your device, cause financial harm, or damage your device.

About application packages and catalogues

Application manager works with packages that are generally contained in application catalogues, that you can access over a network connection.

An application package is a set of files. It can contain an application that you open from the **Applications** folder, a plug-in for the desktop, a new theme, or other kinds of add-ons.

A catalogue is a set of packages. It can include different kinds of software combined as application packages. Certain packages can be shared by many applications. For the software to install successfully, the whole catalogue is needed. A list of available packages is saved in the device.

On some websites, you can install an application directly by selecting a link to a file with the .install file extension. The Application manager opens, and installs the application. If a new catalogue is needed for the application, the Application manager also offers to add it automatically.

View log

You can use the log to view event details and to diagnose unusual behaviour in the Application manager. The content of the log is deleted when you close the application.

Open the **Application manager** menu, and select **Log**.

Save the log

Select **Save as**, enter a name for the log, and define where you want to save it. The log is saved as a text file.

Install additional applications
Browse and search installable applications

Select ➕ > **More...** > **App manager** and ⬇Download.

Browse applications

Select a category to browse a list of installable application packages. If there are only a few packages available, the category list is not displayed.

The package list contains the name, version, and size of each package. When you select a package, a short description of its contents is displayed, and you can install, search, or view details of the package.

Search for applications

Open the menu, select **Search**, enter search words, and select the search area and **Search**.

View application details

Select the application and **Details**.

Show installed applications

Select ➕ > **More...** > **App manager** and ⚙Uninstall.

The applications can be searched and sorted, and their details viewed, in the same way as when browsing installable applications.

Related topics

Uninstall applications

1 Select ![icon] > **More...** > **App manager** and ![icon]
  Uninstall.
2 Select an application and **Uninstall**.

Once confirmed and started, the uninstallation process cannot be cancelled.

Add catalogues
View, install, and edit catalogues

You can view, install, edit, and delete catalogues. It may not be possible to edit or delete preinstalled catalogues.

Select ![icon] > **More...** > **App manager**.

View available catalogues

Open the **Application manager** menu, and select **Application catalogues**. The list of catalogues is displayed. If refreshing a catalogue fails, select the catalogue name to view the details.

Install catalogues

You can only install a catalogue's packages if the catalogue is installed on your device. If you select an .install file, for example, from a website, and the catalogue needed to fulfil all dependencies is not installed on your device, you are prompted to install the catalogue. If you cancel the installation, you will not be able to install any of the packages.

1 Open the **Application manager** menu, and select **Application catalogues** > **New**.
2 Define the catalogue name.
3 Define the web address, distribution, and components details, provided by the catalogue owner.
4 Select the **Disabled** check box to enable or disable a catalogue. If you disable a catalogue, the device does not search for updates or software packages from it.
5 Select **Save**.

Edit a catalogue

You can edit the information of each catalogue. You can also disable a catalogue to hide its packages in the Application manager.

Certain essential catalogues only allow you to enable or disable the catalogue, you cannot edit any other information.

1 Open the **Application manager** menu, and select **Application catalogues** and the catalogue.
2 Edit the details.
3 Select the **Disabled** check box to enable or disable a catalogue.

Restore application packages

If needed, you can replace the existing application packages with backup files you have previously created.

1 Select ![icon] > **More...** > **App manager**.
2 Open the **Application manager** menu, and select **Restore applications**.

3   Select the applications to restore and **Yes**.

The applications are retrieved from catalogues, using a network connection.

Check for updates

To see a list of installed application packages that can be updated, select ▦ > **More...** > **App manager** and ⟳ **Update**. The list contains the name, version, and size of each package. When you select a package, a short description of its contents is displayed.

You can select the packages you want to update or update all available packages. You can also sort update packages in the same way as when browsing installable applications, or view application details.

To prevent any possible loss of data, back up your data before installing operating system updates.

Related topics

- See "Browse and search installable applications", p. 83.

Update software

Software updates may include new features and enhanced functions that were not available at the time of purchase of your device. Updating the software may also improve the device performance. You can update the software in your device with Application manager or with Nokia Software Updater.

Automatic software updates

When new software updates are available for the operating system or for Nokia or third party applications, or when there are additional applications available for your device, 🔔 is displayed in the status area.

It is recommended that you install software updates as they may contain important bug fixes and other updates. If you dismiss the suggested updates, you can later install them from the Application manager.

Downloading software updates may involve the transmission of large amounts of data (network service).

Make sure that the device battery has enough power, or connect the charger before starting the update.

Install software updates

1   Select the status area and **New updates**.
2   Open the menu, and select **Update all**, or select the packages to install and **Continue**.
3   Confirm the installation.

Install additional applications

1   Select the status area and **New releases**.
2   To open a web page with details of an additional application, select **Download**.

Check the version number of the software on your device

Select ▦ > **Settings** and **About product**.

Most software updates can be installed with the Application manager. However, an update using Nokia Software Updater may sometimes be necessary. In this case, you receive a notification that a software update is available via Nokia Software Updater.

Related topics

Software updates using your PC

Nokia Software Updater is a PC application that enables you to update your device software. To update your device software, you need a compatible PC, broadband internet access, and a compatible USB data cable to connect your device to the PC.

To get more information, to check the release notes for the latest software versions, and to download the Nokia Software Updater application, see www.nokia.com/softwareupdate or your local Nokia website.

Update the device software with the Nokia Software Updater

1   Download and install the Nokia Software Updater application to your PC.
2   Connect your device to the PC using a USB data cable, and open the Nokia Software Updater application. The Nokia Software Updater application guides you to back up your files, update the software, and restore your files.

Manage time

View time and set alarms

Select ▦ > **Clock**.

You can view your local time and time zone information, set and edit alarms, or modify date, time and regional settings.

Add and edit alarms

Add alarms

1   Select ▦ > **Clock** and ✛.
2   Enter the time for the alarm. You can create an alarm that repeats on set days. You can also add a title.
3   Select **Save**.

Edit alarms

1   Select ▦ > **Clock** and ◗.
2   Select the alarm you want to edit.
3   Edit the title and time of the alarm, select the days on which the alarm is to be repeated, and activate or deactivate the alarm.
4   Select **Save**.

Turn off a sounding alarm

Select **Stop**.

Turn off the alarm for a certain period

Select **Snooze**.

If your device is switched off when a clock alarm is due, your device switches itself on and starts sounding the alarm tone.

Related topics

• See "Clock settings", p. 87.

View world clock

You can view the current time in different locations. The first clock is the local time, and it opens the date and time settings.

Add a new world clock
1 Select ▦ > **Clock** and 🌐.
2 Select **New World clock**.
3 Drag the map to the desired time zone, or select 🔍 to search for a city.
4 Select **Done**.

Clock settings

Alarm settings
1 Select ▦ > **Clock**, and open the menu.
2 Select **Alarm settings**.
3 Select the tone for the alarm clock and the time after which the alarm sounds again when you set it to snooze.
4 Select **Save**.

Related topics

• See "Language and regional settings", p. 98.
• See "Date and time settings ", p. 97.

View and manage calendar
View the calendar

Select ▦ > **Calendar**. Open the menu, and select **Month**, **Week**, or **Agenda**.

With the calendar, you can do the following:

• Create events, tasks, and notes for different purposes such as work, home, or hobbies. The items you enter in different calendars appear in different colours.
• Create new calendars, and delete unnecessary calendars. However, your device has two calendars that cannot be deleted. The private calendar only exists in your device and cannot be synchronised. The device main calendar is used with the PC Suite, for example.
• Hide calendars without removing your events and tasks. For example, you can hide your work calendar during your holiday. When a calendar is hidden, its alarms are off.

If you add birthdays to your contact cards, the birthdays are collected into a birthday calendar. The alarm is off by default for the birthdays, so you must edit them if you want to be reminded.

View notes
Select **Go to notes**.

View all tasks
Select **Go to tasks**.

Related topics
• See "Calendar settings", p. 89.

Add and edit calendars

Select ▦ > **Calendar**, open the menu, and select
Settings > **Edit calendars**.

You can create different calendars for home, work, and
hobbies, for example.

Add a calendar
1 Select **New**, and follow the instructions of the Calendar
  wizard.
2 Add the title and colour of the calendar, and select
  whether the calendar is displayed.
3 Select **Finish**.

Edit a calendar
1 Select the calendar you want to edit.
2 Edit the title and colour of the calendar, and select
  whether the calendar is displayed.
3 Select **Save**.

Add and edit calendar notes

Select ▦ > **Calendar**, open the menu, and select **Go to
notes**.

Add a note
1 Select **New note**.

2 Write the note. To change the calendar, select
  Calendar.
3 Select **Save**.

Edit a note
1 Select the note.
2 Edit the note. To change the calendar, select **Calendar**.
3 Select **Save**.

Add and edit tasks

Select ▦ > **Calendar**, open the menu, and select **Go to
tasks**.

You can keep track of your schedule by creating task
reminders for yourself. After the task has been completed,
you can mark the task as done.

Add a task
1 Select **New task**.
2 Add the title and date, select which calendar to use, and
  set the alarm.
3 Select **Save**.

Edit a task
Select the task, edit the details, and select **Save**.

Mark a task as done
Select **Done**.

Add and edit events

You can reserve time in your calendar for events such as appointments and meetings. You can also add reminders for birthdays, anniversaries, and other events.

If you add a birthday to your contact cards, the birthdays are automatically collected to a birthday calendar.

Select ▓▓▓ > **Calendar**.

Add an event
1   Go to the desired date, and select **New event**.
2   Add the details of the event. You can set the event to repeat regularly, set an alarm, and select which calendar to use.
3   Select **Save**.

Tip: To add an event quickly, select **Month**, **Week**, or **Agenda**, and start entering text using the physical keyboard. The **New event** dialog opens, and you can edit the rest of the information.

Edit or remove an event
1   Go to the date of the event.
2   Select the desired event, open the menu, and select **Edit event** or **Delete event**.

Import events to calendar

You can import downloaded or local files with the .ics file extension to your calendar.

1   Tap a file that has the .ics file extension.

2   Select a calendar from the list.

    To import the content to a new calendar, select **Create new calendar**.
3   Select **Save**.

Synchronise content

You can synchronise your calendars with other compatible devices. You can use an existing calendar or create a new calendar for the events, tasks, and notes.

When calendar events are synchronised, the calendar in the other device may have more complex settings for repeating events. In this case, the repeating events are shown in the device, but the possibility to edit repeating events may be restricted.

Related topics
- See "Synchronise content", p. 80.

Add the agenda widget to desktop

You can add the agenda widget to the device desktop. With the widget, you can quickly view your upcoming calendar events.

Tap the desktop, and select ⚙ > **Desktop menu** > **Add widget** > **Calendar**.

Calendar settings

Select ▓▓▓ > **Calendar**, and open the menu. Select **Settings** and from the following:

Edit calendars — Add and edit calendars.

Alarm tone — Change the alarm tone. To add your own alarm tone, select **Add**.

Hide done tasks — Hide your completed tasks.

Delete items — Define the period after which your calendar events and tasks are removed.

First day of week — Change the first day of the week.

Use utilities and manage data

Manage files
About File manager

Select **⊞** > **More...** > **File manager**.

With File manager, you can move, copy, rename, delete, and open files and folders.

View files and folders

Select **⊞** > **More...** > **File manager**.

To view detailed information about a file or folder, select the item, open the **File manager** menu, and select **Details**.

Stored files are compressed to save memory.

You cannot modify read-only files or folders.

If you view File manager files with your PC using a USB data cable, and Mac or Linux operating system, the File manager folders are hidden by default. To view the folders, set the operating system to display hidden folders. In the Windows operating system, the folders are indicated with extensions such as .documents, .images, or .videos.

Edit files and folders

1 Select **⊞** > **More...** > **File manager**.
2 Select a file or folder.
3 Open the **File manager** menu, and select from the following:

New folder — Create a new folder.

Move — Move a file or folder.

Copy — Copy a file or folder.

Delete — Delete a file or folder.

Share — Share a file or folder.

Sort — Sort files and folders.

Memory usage — View memory usage. To view memory details, select **Details**.

Memory
About memory

Your device has an inbuilt mass memory with a capacity of 32 GB, some of which is reserved for the device software, and not available for use when connected to a PC.

In addition to the device mass memory, your device has an external microSD memory card slot, and it supports memory cards with a capacity of up to 16 GB. You can insert and remove a memory card when the device is switched on, if the memory card is not being used by an application.

Use only compatible MicroSD cards approved by Nokia for use with this device. Nokia uses approved industry standards for memory cards, but some brands may not be fully compatible with this device. Incompatible cards may damage the card and the device and corrupt data stored on the card.

In case the device memory is corrupted, formatting the device storage and re-installing the operating system may be needed.

Manage memory cards

You can create new folders, view memory usage, or move, copy, sort, share, or delete information from the memory card using File manager.

1   Select **⊞** > **More...** > **File manager** and the desired memory card from the list.
2   Open the **File manager** menu, and select the desired action.

Memory

You can view the amount of available memory in the device memory, or on the memory card, and the amount of memory available for installing applications.

1   Select **⊞** > **Settings** and **Memory**.
2   To view the memory consumption in more detail, select **Details**.

To increase the amount of available memory, delete data using the file manager or other applications.

Increase available memory

Many features of the device use memory to store data. The device notifies you if the amount of available memory is low.

View how much memory is available

Select **⊞** > **Settings** and **Memory**.

Increase the available memory

Move data to a compatible memory card (if available) or to a compatible computer. To remove data you no longer need, use File manager, or open the respective application.

You can remove the following:

- Images and video clips. Back up the files to a compatible computer.
- Saved web pages
- Messages in Conversations
- Retrieved mail messages in the mailboxes
- Contact information
- Calendar notes
- Applications shown in Application manager that you do not need
- Installation files (.deb or .install) of applications you have installed. Transfer the installation files to a compatible computer.

Restore the original settings

You can restore all device settings to their default values. This does not affect content or shortcuts you have created,

security codes, passwords, the device language, or game scores. Also, it does not affect the contents of the device mass memory.

1   Select ▦ > **Settings**.
2   Open the **Settings** menu, and select **Restore original settings** and **Yes**.
3   Enter the lock code of the device, and select **Done**.

Use utilities
Read news feeds and blogs
With the RSS feed reader, you can read news feeds and blogs from all over the world and content published on different web sites.

Select ▦ > **More...** > **RSS**.

Open a feed
Select the feed you want to open.

Sort feed contents by date or name
Open the **RSS** menu, select **Sort**, and the desired sorting option.

Organise, create, rename or delete folders
Open the **RSS** menu, and select **Manage folders**.

Clear all details from the image cache
Open the **RSS** menu, and select **Clear image cache**.

Modify RSS feed reader settings
Open the **RSS** menu, and select **Settings**.

Open the feed directory to view categorised news feeds
Open the **RSS** menu, and select **Feed directory**.

Select from the following:
⟳ — Refresh the view.
⊹ — Add a new feed.
ⓘ — View feed details.
🗑 — Delete.
▤ — Show or hide the folder structure.

View PDFs
With the PDF reader, you can view documents in the portable document format (PDF).

Select ▦ > **More...** > **PDF reader**.

Open a document
Open the **PDF reader** menu, and select **Open**.

Save a document
Open the **PDF reader** menu, and select **Save as**.

View the details of a document
Open the **PDF reader** menu, and select **Details**.

Select from the following:

$\Vert\langle$ — Go to the first page of the document.

$\rangle\Vert$ — Go to the last page of the document.

$\langle$ — Go to the previous page of the document.

$\rangle$ — Go to the next page of the document.

$\oplus$ — Zoom in.

$\ominus$ — Zoom out.

$\boxed{\lrcorner}$ — Switch from normal to full screen mode.

Write notes

With the Notes application, you can create, save, and send short notes. Files with the .txt (plain ASCII text with no formatting) and .note.html (formatted text) file extensions are supported. The full HTML file format is not supported.

Select **More...** > **Notes**.

Add a new note
Open the **Notes** menu, and select **New**.

Open an existing note
Open the **Notes** menu, and select **Open**.

Save a note
Open the **Notes** menu, and select **Save**.

Undo or redo an action
Open the **Notes** menu, and select **Undo** or **Redo**.

Change the font
Open the **Notes** menu, and select **Font**.

Make calculations

This calculator has limited accuracy and is designed for simple calculations.

1 Select **Calculator**.
2 Make calculations.
3 To clear the display, open the **Calculator** menu, and select **Clear till roll**.

Manage certificates

Certificates are used when creating secure connections in, for example, web browser and mail. You can install, view, and delete certificates.

Certificates are used to authenticate the server or the user. Do not add new certificates unless you have verified that they are genuine. Adding arbitrary certificates may decrease the security of your encrypted connections.

User certificates are typically provided to you by your service provider or company IT department.

Select **Settings** and **Certificate manager**.

Draw sketches
Select **More...** > **Sketch**.

To draw simple images, start drawing on the screen with your finger or with the stylus. All sketches are saved in the PNG file format.

Start a new sketch
Open the **Sketch** menu, and select **New**.

Open an existing sketch
Open the **Sketch** menu, and select **Open**.

Save a sketch
Open the **Sketch** menu, and select **Save**.

Modify canvas size
Open the **Sketch** menu, and select **Canvas size**.

Crop a sketch
Open the **Sketch** menu, and select **Crop**.

View details of a sketch
Open the **Sketch** menu, and select **Details**.

Drawing tools

Select from the following:

 — Draw freehand.

 — Draw straight lines.

☐ — Draw a rectangle.

◯ — Draw an ellipse or a circle.

 — Erase a line or shape. Select one of the four brush sizes from the toolbar, and draw over the area you want to erase.

To change the brush size or colour, select the respective selector icon from the toolbar.

Play games

Blocks

The objective of the game is to move and rotate the falling blocks so that the rows are complete. When a row is complete, it disappears and the blocks above that row fall down one row.

Play Blocks
1 Select **▉▉▉** > **More...** and **Blocks**.
2 Select from the following:

 Block speed — Define how fast the blocks fall down.
 Starting density — Define the number of blocks that are randomly placed when the game starts.
 Starting height — Define the number of rows at the bottom of the screen when the game starts.
3 Select **Play**.

Rotate a block
Tap the block, or press enter on the physical keyboard.

Move a block
Drag the block to the desired direction, or use the arrow keys on the physical keyboard.

Pause a game
Select **Exit to menu**.

Resume a paused game
Select **Continue**.

Restart a game
Select **Restart**.

The game is over when the game field is full of blocks, and the next falling block cannot fit.

Chess
Play Chess
1 Select ▒▒▒ > **More...** and **Chess**.
2 Select from the following:

   Player 1 — Select black or white game pieces for the first player.
   Opponent — Select the skill level of the computer opponent, or select **Player 2** for a two-player game.

   Sound effects — Enable sound effects.
   Show legal moves — See all possible legal moves when moving a chess piece.
3 Select **Play**.

To move a game piece, drag the piece to the desired location.

When you have successfully moved a pawn to your opponent's side of the game board, you can promote your

pawn to queen, rook, knight, or bishop according to standard chess rules.

When the chess game ends, you can return to the game and undo your last moves.

Undo or redo a move
Select ◄ or ►.

Pause a game
Select ◁.

Resume a paused game
Select **Continue**.

Restart a game
Select **Restart**.

Save a game
Open the menu, and select **Game** > **Save** or **Save as**.

Open a saved game
Open the menu, and select **Game** > **Open** and the desired game.

Mahjong
The objective of the game is to find matching pairs of game pieces and clear the whole board as fast as possible. You must find a pair of identical game pieces that are free to move, that is, no other game piece is covering them, or lying to the left and right of them.

Play Mahjong
1   Select ▦ > **More...** and **Mahjong**.
2   To define the layout of the board, select **Board**.
3   To enable sound effects, select **Sound effects**.
4   Select **Play**.

When you find a matching pair, tap each game piece with the stylus to remove them from the board. When you successfully clear the board of game pieces, you win the game.

Undo or redo a move
Select 🔙 or 🔜.

Get a hint
Select 💡. If you use a hint, the elapsed game time increases by 30 seconds.

Shuffle game pieces
Select 🔀. If you shuffle the remaining game pieces, the elapsed game time increases by 60 seconds.

Pause a game
Select ◁.

Resume a paused game
Select **Continue**.

Restart a game
Select **Restart**.

View the best times
Select **Best times**. For each game level, you can view the best time and the date when it was achieved.

Marbles

The objective of the game is to match the marbles in the game area with the pattern and colour displayed on the right side of the screen.

Play Marbles
1   Select ▦ > **More...** and **Marbles**.
2   To define the number of allowed moves on each game level, select **Difficulty level**.
3   To enable sound effects, select **Sound effects**.
4   Select **Play**.

To move a marble, select it, and drag it with the stylus. You can move marbles horizontally and vertically. Once a marble is moving, it only stops when it bumps into a wall or another marble.

The lower right side of the game board contains the open chapters and levels. You can play any of the levels in the current chapter. When you complete all levels in a chapter, you can move on to the next one.

Undo a move
Select ◀.

Pause a game
Select ◁▷.

Resume a paused game
Select **Continue**.

Restart the current game level
Select **Restart**.

Restart the whole game
Open the menu, and select **Reset** > **Reset game progress**.

Install other games

In addition to the games that are pre-installed in your device, other games are available for you to install and play. You can search for and install new games using the Application manager.

Related topics

Modify settings

Modify personalisation settings
Change themes

A theme is a set of matching background images, one for each desktop.

1 Select ▐▐ > **Settings** and **Themes**.
2 Select a theme from the list.

Profile settings

Select ▐▐ > **Settings** and **Profiles**.

Set the device to vibrate when in the Silent or General profile
Select **Vibrate**.

Select the ringing tone and message alert tones
Select **Ringing tone**, **SMS alert**, **IM tone**, or **E-mail alert** and the desired tone.

Add a new ringing tone or message alert tone
Select the tone type, **Add**, the desired tone, and **Done**.

Select the volume level of tones
Select **System sounds**, **Key sounds**, or **Touch screen sounds** and the desired volume level.

Adjust the volume of tones
Drag right or left.

Date and time settings
Define date and time settings

1 Select ▐▐ > **Settings** and **Date and time**.
2 Define the following:

   24-hr clock — Select whether to display the time in the 24 hour format.
   Update automatically — Select whether to update the date and time automatically.

Set the date and time manually
1 Make sure the Update automatically check box is not selected.
2 Select **Time zone**. Select the desired time zone and **Done**.

   To search for cities, select 🔍.
3 Select **Date**. Set the current day, month, and year, and select **Done**.
4 Select **Time**. Set the current hour and minutes, and select **Done**.
5 Select **Save**.

Language and regional settings
The language setting determines the language of the user interface and how the date and time are displayed. The regional setting determines how numbers and currencies are displayed.

Define language and regional settings
1 Select ⊞ > **Settings** and **Language & region**.
2 Define the device language and regional settings.
3 Save the settings, after which the device restarts.

Display settings
1 Select ⊞ > **Settings** and **Display**.
2 Define the following:

   Brightness — Drag right or left to change the brightness of the display. The display brightness is also affected by

the ambient lighting conditions measured with the light sensor.

   Backlight time-out — Select the period of inactivity, after which the display is turned off to save power.

   Lock screen automatically — Set the device to automatically lock the touch screen and keys after a defined period of inactivity.

   Display stays lit when charging — Set the display to always remain on when the device is charging.

   Touch screen vibration — Set the display to give a short vibration feedback when touched.
3 Select **Save**.

Tip: To save the battery and increase the device operation time, select a low brightness level and a short time-out period.

Notification light settings
Modify the notification light settings
The device notification light can act as status indicator for device and application-specific events. You can, for example, set the notification light to indicate that the device is switched on when the display is off.

1 Select ⊞ > **Settings** and **Notification light**.
2 Select when to use the notification light, and **Save**

Tip: To save the battery and increase the device operation time, turn the notification light off.

Text input settings

1 Select ▦▦ > **Settings** and **Text input**.
2 Select from the following:

Hardware keyboard layout — Define the character set used in the physical keyboard. Changing this setting may lead to the physical keys not matching the hardware keyboard layout.

Use virtual keyboard — Activate the virtual keyboard.

Word completion — Enable word completion.

Auto-capitalisation — Enable auto-capitalisation, to capitalise the first letter of sentences automatically when entering text.

Insert space after word — Insert a space after each accepted word completion.

1st language — Select the first language. To select a dictionary to use for the first language, select **Dictionary** and the dictionary language.

2nd language — Select the second language. To select a dictionary to use for the second language, select **Dictionary** and the dictionary language. When you switch to the secondary language, the current dictionary for the word completion feature is also changed.

Use dual dictionaries — Use both language dictionaries at the same time.

Modify connectivity settings
Bluetooth settings

1 Select ▦▦ > **Settings** and **Bluetooth**.

2 Select from the following:

Bluetooth on — Activate Bluetooth connectivity.

Visible — Allow your device to be found by other devices. If your device is hidden (not visible), it can only be connected to by a previously paired device.

My device's name — Enter a name for your device. This name will be visible to other Bluetooth devices.

3 Select **Save**.

Location settings

Select ▦▦ > **Settings** and **Location**.

GPS settings

Select from the following:

Enable — Activate the internal GPS receiver in your device. The GPS receiver is automatically activated when an application that uses GPS data is opened.

GPS device — Select the GPS receiver to use.

Pair new device — Pair an external GPS receiver with your device. Select the GPS receiver from the list of found devices.

Network positioning settings

Select from the following:

Enable — Activate the network-based positioning service (including A-GPS).

Location server — Enter the location server address.

FM transmitter settings
1 Select **⊞** > **Settings** and **FM transmitter**.
2 To activate the FM transmitter, select **FM transmitter on**.
3 To select the frequency, select **Frequency**.

Edit sharing account
Select **⊞** > **Settings** and **Sharing accounts**. Select an account and **Edit**.

Ovi account

Change the password
Enter the new password, and select **Save**.

Remove the account
Select **Delete**.

If you are editing the account details using your device, you cannot change your user name.

Flickr account

Edit account details
Select **Edit**. Follow the instructions. Return to the account editing dialog, and select **Validate**.

Remove the account
Select **Delete**.

Flickr account details can only be edited using the browser.

Internet connection settings
You can select which connections are used automatically, define how often connections are scanned for in the background, and set the device to switch to a saved WLAN connection when available.

1 Select **⊞** > **Settings** and **Internet connections** > **Connect automatically**.
2 Select whether you want to use WLAN connections, a packet data connection, or whichever connection is available.

   To select a connection each time you connect to the network, select **Always ask**.
3 Select **Search interval** to define the frequency of automatic connection attempts. The default value is 10 minutes.

Switch to WLAN when available
Select **Switch to WLAN when available**, if you want your device to use a saved WLAN connection instead of a packet data connection when such WLAN is available.

Modify phone settings
Modify call settings
1 Select **⊞** > **Settings**.
2 Select **Phone** > **Call** and from the following:

Send my caller ID — Set your phone number to be visible to the recipient.

Call waiting — Activate the call waiting service.

Call forwarding — Define the phone number to which the incoming calls are forwarded if you do not answer. To forward calls to a specific phone number or to a contact from your contacts list, select **Forward to** or **Select contact**.

3 Select **Save**.

Network settings

Your device can automatically switch between GSM and 3G networks.

In the status area, the current network is indicated with the following icons:

2 G	GSM
2.5G	EDGE
3 G	3G
3.5G	HSPA

To modify network settings, select ▦ > **Settings** and **Phone** > **Network**.

Select the service provider's network

By default, your device selects the network automatically. To select the network manually, select **Manual** and a network.

Select network mode

Select which network to use. If you select **Dual**, the device uses the GSM or 3G network automatically, according to the network availability, parameters, and the roaming agreements between network service providers.

For further information, contact your network service provider.

Define data roaming settings

Roaming is based on specific roaming agreements between your network service provider and other network service providers, to enable you to use network services outside your home network, for example when travelling abroad.

Always ask is selected by default. A connection is only attempted when a confirmation note is accepted. If you select **Always allow**, all packet data connections abroad are handled as in the home network.

For further information and roaming costs, contact your network service provider.

Modify SIM card settings

1 Select ▦ > **Settings**.
2 Select **Phone** > **SIM card** and from the following:

PIN code request — Set the device to request the PIN code when the device is switched on.

PIN code — Set the PIN code.

Modify general settings

Modify device lock settings

1 Select ▦ > **Settings** and **Device lock**.
2 Define the following:

Autolock — Select the length of time, after which the device is locked if not used.

Change lock code — Enter the current lock code (12345 by default) and the new code twice.

Memory

You can view the amount of available memory in the device memory, or on the memory card, and the amount of memory available for installing applications.

1 Select ▦ > **Settings** and **Memory**.
2 To view the memory consumption in more detail, select **Details**.

To increase the amount of available memory, delete data using the file manager or other applications.

TV-out settings

1 Select ▦ > **Settings** and **TV out**.
2 Select **PAL** (default, used in Europe, for example) or **NTSC** (used in North America, for example).
3 Select **Save**.

Calibrate the screen

Select ▦ > **Settings** and **Screen calibration**, and follow the instructions.

View information about your device

Select ▦ > **Settings** and **About product**.

The available information includes:

- Device model
- Platform name and release
- Software version
- WLAN MAC address
- Bluetooth address
- IMEI address
- Applicable licences
- Other important information about your device

Third party application settings

When you install additional applications, the applications may automatically add an applet icon to the Settings folder. By default, the icons are added to the Extras group.

Select ▦ > **Settings** and the application, and define the desired settings.

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Maemo Source Code Requests

Nokia Corporation

P.O.Box 407

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Finland

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Standards
The product is compliant with the following standards:

- EN 301 511, Harmonised Standard for Mobile Stations in the GSM 900/1800 Bands
- EN 300 328, Harmonised Standard for Data Transmission Equipment Operating in the 2.4 GHz Band
- EN 301 357-2, Harmonised standard for analogue cordless wideband audio devices using integral antennas operating in the CEPT recommended 863 MHz to 865 MHz frequency range
- EN 301 489-01, Electro Magnetic Compatibility Standard for Radio Equipment and Services
- EN 301 489-07, Specific (EMC) Conditions for Mobile Radio Equipment, GSM 900/1800 Bands
- EN 301 489-09, Specific (EMC) Conditions for wireless microphones, similar Radio Frequency (RF) audio link equipment, cordless audio and in-ear monitoring devices

• EN 301 489-17, Specific (EMC) Conditions for Wideband Data and Hiperlan Equipment

• EN 301 489-24, Specific (EMC) Conditions for third generation cellular phones

• EN 301 908-01, Harmonized standard for WCDMA Mobile Station; Common requirements

• EN 301 908-02, Harmonized standard for WCDMA (UTRA FDD) Mobile Stations

• EN 60950-1, Safety of Information Technology Equipment

• EN 62311, Assessment of Electronic and Electrical Equipment related to Human Exposure restrictions for Electromagnetic Fields (0Hz to 300GHz)

• EN 50360, Product Standard to demonstrate the Compliance of Mobile Phones with the Basic Restrictions related to Human Exposure to Electromagnetic Fields

• 1999/519/EC, Council Recommendation on the Limitation of Exposure of the General Public to Electromagnetic Fields

Please check compliance with other standards separately.

Accessories

Warning:
Use only batteries, chargers, and accessories approved by Nokia for use with this particular model. The use of any other types may invalidate any approval or warranty, and may be dangerous. In particular, use of unapproved chargers or batteries may present a risk of fire, explosion, leakage, or other hazard.

For availability of approved accessories, please check with your dealer. When you disconnect the power cord of any accessory, grasp and pull the plug, not the cord.

Battery
Battery and charger information
Your device is powered by a rechargeable battery. The battery intended for use with this device is BL-5J. Nokia may make additional battery models available for this device. This device is intended for use when supplied with power from the following chargers: AC-10. The exact charger model number may vary depending on the type of plug. The plug variant is identified by one of the following: E, EB, X, AR, U, A, C, K, or UB.

The battery can be charged and discharged hundreds of times, but it will eventually wear out. When the talk and standby times are noticeably shorter than normal, replace the battery. Use only Nokia approved batteries, and recharge your battery only with Nokia approved chargers designated for this device.

If a battery is being used for the first time or if the battery has not been used for a prolonged period, it may be necessary to connect the charger, then disconnect and reconnect it to begin charging the battery. If the battery is completely discharged, it may take several minutes before the charging indicator appears on the display or before any calls can be made.

Safe removal. Always switch the device off and disconnect the charger before removing the battery.

Proper charging. Unplug the charger from the electrical plug and the device when not in use. Do not leave a fully charged battery connected to a charger, since overcharging may shorten its lifetime. If left unused, a fully charged battery will lose its charge over time.

Avoid extreme temperatures. Always try to keep the battery between 15°C and 25°C (59°F and 77°F). Extreme temperatures reduce the capacity and lifetime of the battery. A device with a hot or cold battery may not work temporarily. Battery performance is particularly limited in temperatures well below freezing.

Do not short-circuit. Accidental short-circuiting can occur when a metallic object such as a coin, clip, or pen causes direct connection of the positive (+) and negative (-) terminals of the battery. (These look like metal strips on the battery.) This might happen, for example, when you carry a spare battery in your pocket or purse. Short-circuiting the terminals may damage the battery or the connecting object.

Disposal. Do not dispose of batteries in a fire as they may explode. Dispose of batteries according to local regulations. Please recycle when possible. Do not dispose as household waste.

Leak. Do not dismantle, cut, open, crush, bend, puncture, or shred cells or batteries. In the event of a battery leak, prevent battery liquid contact with skin or eyes. If this happens, flush the affected areas immediately with water, or seek medical help.

Damage. Do not modify, remanufacture, attempt to insert foreign objects into the battery, or immerse or expose it to water or other liquids. Batteries may explode if damaged.

Correct use. Use the battery only for its intended purpose. Improper battery use may result in a fire, explosion, or other hazard. If the device or battery is dropped, especially

on a hard surface, and you believe the battery has been damaged, take it to a service centre for inspection before continuing to use it. Never use any charger or battery that is damaged. Keep your battery out of the reach of small children.

Nokia battery authentication guidelines

Always use original Nokia batteries for your safety. To check that you are getting an original Nokia battery, purchase it from a Nokia authorised service centre or dealer, and inspect the hologram label using the following steps:

Authenticate hologram

1   When you look at the hologram on the label, you should see the Nokia connecting hands symbol from one angle and the Nokia Original Enhancements logo when looking from another angle.

2   When you angle the hologram left, right, down and up, you should see 1, 2, 3 and 4 dots on each side respectively.

Successful completion of the steps is not a total assurance of the authenticity of the battery. If you cannot confirm authenticity or if you have any reason to believe that your Nokia battery with the hologram on the label is not an authentic Nokia battery, you should refrain from using it, and take it to the nearest Nokia authorised service centre or dealer for assistance.

To find out more about original Nokia batteries, see www.nokia.com/battery.

Taking care of your device

Your device is a product of superior design and craftsmanship and should be treated with care. The following suggestions will help you protect your warranty coverage.

*   Do not use or store the device in dusty, dirty areas. Its moving parts and electronic components can be damaged.
*   Do not store the device in high or cold temperature. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics. When the device warms to its normal temperature from a cold temperature, moisture can form inside the device and damage electronic circuit boards.
*   Do not attempt to open the device other than as instructed in this guide.
*   Do not drop, knock, or shake the device. Rough handling can break internal circuit boards and fine mechanics.
*   Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the device. Only use a soft, clean, dry cloth to clean the surface of the device.
*   Do not paint the device. Paint can clog the moving parts and prevent proper operation.
*   Use only the supplied or an approved replacement antenna. Unauthorised antennas, modifications, or attachments could damage the device and may violate regulations governing radio devices.
*   Use chargers indoors.
*   Backup all data you want to keep, such as contacts and calendar notes.
*   To reset the device from time to time for optimum performance, power off the device and remove the battery.

These suggestions apply equally to your device, battery, charger, or any accessory.

Recycle

Always return your used electronic products, batteries, and packaging materials to dedicated collection points. This way you help prevent uncontrolled waste disposal and

promote the recycling of materials. Check product environmental information and how to recycle your Nokia products at www.nokia.com/werecycle, or nokia.mobi/werecycle.

The crossed-out wheeled-bin symbol on your product, battery, literature, or packaging reminds you that all electrical and electronic products, batteries, and accumulators must be taken to separate collection at the end of their working life. This requirement applies in the European Union. Do not dispose of these products as unsorted municipal waste. For more environmental information, see the product Eco-Declarations at www.nokia.com/environment.

Additional safety information
Small children
Your device and its accessories are not toys. They may contain small parts. Keep them out of the reach of small children.

Operating environment
This device meets RF exposure guidelines in the normal use position at the ear or at least 2.2 centimetre (7/8 inch) away from the body. Any carry case, belt clip, or holder for body-worn operation should not contain metal and should position the device the above-stated distance from your body.

To send data files or messages requires a quality connection to the network. Data files or messages may be delayed until such a connection is available. Follow the separation distance instructions until the transmission is completed.

Parts of the device are magnetic. Metallic materials may be attracted to the device. Do not place credit cards or other magnetic storage media near the device, because information stored on them may be erased.

Medical devices
Operation of radio transmitting equipment, including wireless phones, may interfere with the function of inadequately protected medical devices. Consult a physician or the manufacturer of the medical device to determine whether they are adequately shielded from external RF energy. Switch off your device when regulations posted instruct you to do so. Hospitals or health care facilities may use equipment sensitive to external RF energy.

Implanted medical devices
Manufacturers of medical devices recommend a minimum separation of 15.3 centimetres (6 inches) between a wireless device and an implanted medical device, such as a pacemaker or implanted cardioverter defibrillator, to avoid potential interference with the medical device. Persons who have such devices should:

*   Always keep the wireless device more than 15.3 centimetres (6 inches) from the medical device.
*   Not carry the wireless device in a breast pocket.
*   Hold the wireless device to the ear opposite the medical device.
*   Turn the wireless device off if there is any reason to suspect that interference is taking place.
*   Follow the manufacturer directions for the implanted medical device.

If you have any questions about using your wireless device with an implanted medical device, consult your health care provider.

Hearing aids
Some digital wireless devices may interfere with some hearing aids.

Vehicles
RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles such as electronic fuel injection, electronic antilock braking, electronic speed control, and air bag systems. For more information, check with the manufacturer of your vehicle or its equipment.

Only qualified personnel should service the device or install the device in a vehicle. Faulty installation or service may be dangerous and may invalidate your warranty. Check regularly that all wireless device equipment in your vehicle is mounted and operating properly. Do not store or carry flammable liquids, gases, or explosive materials in the same compartment as the device, its parts, or accessories. Remember that air bags inflate with great force. Do not place your device or accessories in the air bag deployment area.

Switch off your device before boarding an aircraft. The use of wireless teledevices in an aircraft may be dangerous to the operation of the aircraft and may be illegal.

Potentially explosive environments
Switch off your device in any area with a potentially explosive atmosphere. Obey all posted instructions. Sparks in such areas could cause an explosion or fire resulting in

bodily injury or death. Switch off the device at refuelling points such as near gas pumps at service stations. Observe restrictions in fuel depots, storage, and distribution areas; chemical plants; or where blasting operations are in progress. Areas with a potentially explosive atmosphere are often, but not always, clearly marked. They include areas where you would be advised to turn off your vehicle engine, below deck on boats, chemical transfer or storage facilities and where the air contains chemicals or particles such as grain, dust, or metal powders. You should check with the manufacturers of vehicles using liquefied petroleum gas (such as propane or butane) to determine if this device can be safely used in their vicinity.

The surface of this device is nickel-free.

Emergency calls
Before making an emergency call, switch the device on, and check for adequate signal strength. If the screen and keys are locked, slide the lock switch on the side of the device to unlock them.

Important: This device operates using radio signals, wireless networks, landline networks, and user-programmed functions. Emergency calls can be made using the cellular phone.It is not possible to make an emergency call using voice calls over the internet (internet calls). Connections in all conditions cannot be guaranteed. You should never rely solely on any wireless device for essential communications like medical emergencies.

Make an emergency call
1 Select ⬛⬛⬛ > **Phone**.
2 Select ⬛ and the cellular call type.
3 Enter the official emergency number for your present location.
4 Select 📞 to start the call.

Make an emergency call without entering PIN, PUK, or lock code
1 When the device asks for the code, enter the emergency number for your present location. The 📞 **Emergency call** icon appears.
2 Select 📞 **Emergency call** to make the call. After the emergency call, you need to enter the required PIN, PUK, or lock code to be able to use other device functions.

When making an emergency call, give all the necessary information as accurately as possible. Your wireless device may be the only means of communication at the scene of an accident. Do not end the call until given permission to do so.

Certification information (SAR)
This mobile device meets guidelines for exposure to radio waves.

Your mobile device is a radio transmitter and receiver. It is designed not to exceed the limits for exposure to radio waves recommended by international guidelines. These guidelines were developed by the independent scientific organisation ICNIRP and include safety margins designed to assure the protection of all persons, regardless of age and health.

The exposure guidelines for mobile devices employ a unit of measurement known as the Specific Absorption Rate or SAR. The SAR limit stated in the ICNIRP guidelines is 2.0 watts/kilogram (W/kg) averaged over 10 grams of tissue. Tests for SAR are conducted using standard operating positions with the device transmitting at its highest certified power level in all tested frequency bands. The actual SAR level of an operating device can be below the maximum value because the device is designed to use only the power required to reach the network. That amount changes depending on a number of factors such as how close you are to a network base station.

The highest SAR value under the ICNIRP guidelines for use of the device at the ear is 0.80 W/kg.

Use of device accessories may result in different SAR values. SAR values may vary depending on national reporting and testing requirements and the network band. Additional SAR information may be provided under product information at www.nokia.com.

DECLARATION OF CONFORMITY

CE0434 ①

Hereby, NOKIA CORPORATION declares that this RX-51 product is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. A copy of the Declaration of Conformity can be found at http://www.nokia.com/phones/declaration_of_conformity/.

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